

2026

EMERGENCY RESPONSE PLAN

For National University of Singapore
MD9 Building

This emergency response plan is developed by National University of Singapore and is to be handed over to SCDF responders in times of emergencies.



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TABLE OF RECORDS OF EMERGENCY EXERCISES CONDUCTED

DATE OF DRILL	TIME	FIRE FLOOR	NO. OF PARTICIPANTS	PARTICIPATION RATE (%)	EVACUATION TIME	NAME & SIGNATURE OF COORDINATOR
28 April 2004	9.30am	Level 1	60		< 10 min	Chong Oi Khuan
15 Aug 2005	2.55pm	Level 1	95	70.4	6 min	Chong Oi Khuan
27 Sep 2006	10.00am	Level 1	80	68.4	5 min	Chong Oi Khuan
2 Aug 2007	11.30am	Level 1	76	71.7	4 min	Chong Oi Khuan
30 July 2008	11.00 am	Level 1	70	68.0	4 min	Heng Ye Yong
30 July 2009	11.00 am	Level 1	66	71.0	4 min	Heng Ye Yong
4 Aug 2010	11.00 am	Level 1	72	87.8	4 min	Heng Ye Yong
25 June 2011	11.00 am	Level 1	62	63.9	4 min	Zaheedah Yahya
2 Aug 2013	11.00 am	Level 1	61	62.89	-	Zaheedah Yahya
30 July 2014	11.00 am	Level 1	63	66.32	2min15secs	Majidah Rezlan
04 Aug 2015	02.10 pm	Level 1	67	58.26	3min15secs	Ong Yeong Bing
27 July 2016	10.00 am	Level 1	59	60.82	3min45sec	Uma Thambiyah
28 June 2017	10.30 am	Level 1	84	82.35	4min36sec	Uma Thambiyah
06 July 2018	10.00 am	Level 2	61	53.04	4 min	Uma Thambiyah
11 June 2019	10.30 am	Level 1	58	46.77	4min24sec	Uma Thambiyah
2020	No fire drill due to COVID-19 Pandemic					
2021	No fire drill due to COVID-19 Pandemic					
27 July 2022	3.30 pm	Level 3	39	44.3	7 min	Wong Hooi Ling
20 Sept 2023	11:00 am	Level 2	31	36.00	5 min 40 sec	Suhana Ali
25 July 2024	3:00 pm	Level 2	24/77	37.66	7 min 52 sec	Suhana Ali
10 July 2025	10:00 am	Level 2	24/84	29.00	7 min	Lim Hong Meng
2026						

1 AIM

The aim of this document is to detail the various preventive measures and operational actions that need to be undertaken to respond in the event of emergency situations. It includes incidents such as fire, explosions and leaks/spillages of hazardous materials within the installation. This helps to prevent and reduce injury to personnel and minimize damage to and loss of property.

2 SITUATION

2.1 INTRODUCTION

A leading global university cantered in Asia, the National University of Singapore (NUS) is Singapore's flagship university which offers a global approach to education and research with a focus on Asian perspectives and expertise. Its 16 faculties and schools across three campus locations in Singapore – Kent Ridge, Bukit Timah and Outram – provides a broad-based curriculum underscored by multidisciplinary courses and cross-faculty enrichment.

2.2 AREA OF OPERATIONS

2.2.1 LOCATION OF PREMISES AND ITS MAIN ACCESS ROAD

NUS MD9 building is located at 2 Medical Drive, Singapore 117593. The building can be accessed via Clementi Road, South Buona Vista Road and Pasir Panjang Road. (Refer to FEP Annex C)

2.2.2 GENERAL DESCRIPTION OF THE SURROUNDINGS AND NEIGHBORING PREMISES

NUS is located adjacent to National University Hospital, Kent Ridge MRT Station, various private housing estates, Kent Ridge Bus Terminal and Clementi Woods Park.

Contact Information of surrounding facilities are as follows:

- a) National University Hospital (NUH)
Contact numbers: 6779 5555
- b) Kent Ridge MRT
Contact number: 1800 336 8900
- c) Kent Ridge bus terminal
Contact numbers: 1800 287 2727

2.2.3 LAYOUT OF PREMISES

NUS campus consists of 16 faculties and schools, and various research centers and institutes. The building specific information can be viewed in the various annexes attached as separate addendum.

-See FEP for layout plans

The petroleum and flammable materials used by NUS is stored in underground diesel storage tanks or in flammable safety cabinets (applicable for lab research activities)

-Please refer to PED

The safety data sheet of the hazardous materials used in the labs are all made available in the lab and can be readily accessed by lab members and emergency responders.

-Please refer to PED ANNEX D

2.3 SPECIAL HAZARD AND RISK ASSESSMENT

The main hazards in NUS MD9 are:

- Flammable chemicals
- Biological agents

Accidents that can occur in NUS MD9 are:

- Fires
- Chemical Spills/Leaks
- Biological Spills/Leaks
- Gas Leaks

The response procedures and mitigating measures will be addressed in section 3.2.3.

Existing safety control measures

- Fume hoods and biological safety cabinets are used in the handling of chemicals, biological agents and radioisotopes. Appropriate biosafety levels are adhered to when handling biological agents of various risk groups as specified by the Ministry of Health (MOH).
- Emergency showers & eyewashes, first aid boxes, spill response kits and fire extinguishers are provided in the lab area for emergency response.

- Each lab is required to comply with NUS safety policies, manuals, SOPs and guidelines. All research personnel are required to complete mandatory in-house safety training courses.
- Each lab is responsible for ensuring that they are aware of the location of emergency equipment like fire extinguishers, fire blankets, chemical spill kits, biological spill kits, other containment material and necessary personal protective equipment (PPE).
- Flammable chemicals are stored in either purpose-built, fire-rated chemical stores or in flammable safety cabinets.
- Corrosive chemicals are stored in corrosive safety cabinets.

3 EXECUTION (GENERALIZED)

3.1 CONCEPT OF OPERATIONS

The emergency operation to be conducted in phases is as follows:

Phase		Actions
I		To notify SCDF and SPF immediately for all emergency, fire or mass casualty (10 or more casualties) incidents. To notify other related agencies (NEA, MOM, etc) and surrounding companies if necessary.
II	a	Company personnel to conduct evacuation operations.
	b	Company personnel to initiate emergency actions to mitigate or contain the emergency and coordinate with SCDF personnel upon SCDF's arrival.
III		To clean up / decontaminate and resume normal operations for labs related premises and to try to mitigate incipient fire if possible.

Note: Phase II (a) and (b) should be conducted simultaneously or as directed by the Site Main Controller / Site Incident Controller or Fire Safety Manager.

3.2 EMERGENCY ACTIONS TO BE TAKEN

3.2.1 (PHASE I) PROCEDURE TO NOTIFY SCDF, SPF. TO NOTIFY OTHER RELATED AGENCIES AND SURROUNDING COMPANIES

Standard Operating Procedure to notify the Singapore Civil Defense Force (SCDF) and Singapore Police Force (SPF) in the event of an **emergency** (includes incidents such as fire / non-fire & mass casualties) discovered during and after office hours.

When the emergency alarm is triggered, in-house emergency responders will carry out the initial assessment. If the incident is beyond control, the building Fire Safety Manager/Coordinator will inform **CES (Tel: 6874 1616)** and the **SCDF (Tel: 995)** by telephone. This person will act as the liaison with the SCDF ground commander.

He/she will provide information and necessary assistance to the SCDF ground commander. NUS Crisis Emergency Management Team will be notified.

The message used to activate the SCDF and SPF during an emergency includes the following:

- a) Location of incident
- b) Type of incident
- c) Name of installation and contact number
- d) Number of casualties (if any)

Upon the arrival of the SCDF at the scene, the Site Incident Controller/Fire Coordinator will liaise with the SCDF Ground Commander on the status of the incident and the actions that the staff of the building had taken, as well as provide all necessary information (such as site map) and communication equipment if available.

In the event of an emergency, the Site Incident Controller will also need to alert neighbouring buildings within a 100 m radius, especially if the incident has the likelihood of spreading beyond the boundaries of the installation.

***Additional action for major chemical spills:**

Notify

- **National Environment Agency Ops Centre (Tel: 6731 9333 & 9731 0346) or**
- **NEA Call Centre (Tel: 1800-2255632)**

Location of the incident

- a) Nature of material spilled (if known)
- b) Injury to personnel (if any)
- c) Informant's particulars and contact number

3.2.2 (PHASE II a) PROCEDURE FOR EMERGENCY EVACUATION (STANDARD FOR ALL BUILDING)

Should a fire be detected in the building, the **fire alarm** will be triggered to ring to alert the occupants.

Upon activation of Fire Alarm, the duties for the Fire coordinator, Assistant Fire Coordinators, Fire Wardens, Assistant Fire Wardens and First Aiders are as follows:

1. Fire Coordinator: Proceed to Fire Control Room (FCR) directly and then to Assembly Area if a false alarm is determined.
2. Assistant Fire Coordinators (AFC): Proceed to FCR directly. One AFC will then join the Assembly Area while the other will stay behind with the security and OED staff until problem arrested.
3. Fire Wardens:
 - a) Ensure all duties are assigned to the Assistant Fire Wardens before proceeding to the Sub Alarm panel located at your designated floor.
 - b) Check the Sub-Alarm panel for activation on any of the indicator light showing the location of fire.
 - c) Proceed to FCR to brief Fire Coordinator and Assistant Fire Coordinators on the situation of their designated levels.
 - d) Proceed to Assembly Area. Ensure the roll call and attendance are taken by one of the Assistant Fire Wardens.
 - e) Submit the list of attendance to the Assistant Fire Coordinators.
 - f) Fire wardens, with the help of Assistant Fire Wardens must ensure that all the exit lights, fire extinguishers, fire blankets, fire hose reels as well as items in the first aid boxes and fire emergency boxes must always be in good condition.
4. Assistant Fire Wardens:
 - a) Assemble at the assembly point at your designated level and receive instructions from Fire Wardens. The duties are:
 - i. To ensure all staff and students including visitors, attachment students and contractors are evacuated to the Assembly Area.
 - ii. Make sure no one is in the toilet, cold room etc.
 - iii. Ensure no sign of fire within your floor.
 - iv. Ensure all exit card access doors are released automatically.
 - v. Ensure all Exit signs are always lighted.
 - vi. Ensure all Emergency lights are activated.
 - vii. Ensure all the alarms are functioning.
 - viii. Proceed to Assembly Area and assist your Fire Warden to conduct a roll call.
 - ix. Hold up your level sign board and ensure all to gather in front of you in two rows.
 - x. Ensure attendance is taken immediately.

- b) Assist Fire wardens to control your people until further notice given by Fire Safety Coordinator or Assistant Fire Safety Coordinators.

5. First Aiders:

- a) Bring along a first aid box to the assembly area (one small first aid box from every level).
- b) Attend to casualty if any.

Refer to ANNEX A for responsibilities and roles

3.2.3 (PHASE II b) EMERGENCY ACTIONS TO MITIGATE OR CONTAIN THE EMERGENCY)

3.2.3.1 Fire Fighting, Hazmat Monitoring, Containment and Rescue

FIRE

For Fire wardens or building occupants

- When a fire is detected, raise the alarm by activating the nearest fire alarm “break glass” call point.
- Attempt to extinguish any incipient fire without taking personal risk provided subject has been trained in the proper use of a fire extinguisher and is confident in his/her ability to cope with the hazards of fighting a fire. There are several different fire extinguishers available in every area of a building on campus. Occupants are expected to know the location of the fire equipment by referring to the evacuation floor plan found on every floor. The acronym PASS can be used to operate a fire extinguisher as follows:

P - Pull the pin to allow user to squeeze the lever in order to discharge the extinguisher

A - Aim the hose at the base of the fire. Stand a safe distance away from the fire.

S - Squeeze the handle fully to discharge the fire extinguisher agent

S - Sweep the hose from side to side

- Notify CES (Tel No: 6874 1616) and Singapore Civil Defense Force (Tel No: 995) of the activation of fire alarm and state the following:

- i. Location of the fire
- ii. Nature of fire, if known
- iii. Injury to personnel, if known
- iv. Informant's particulars and contact number

The caller shall not replace the telephone set until the address has been repeated by the operator at the SCDF Control Room.

- Stop all work, shut down electrical equipment / heating appliances/ machinery
- Alert people that there is a fire in the building
- Rescue any person in immediate danger to safety as long as it is safe to do so
- If clothing of person is on fire, adopt the stop, drop & roll method or drench with water using the water shower if available
- Close all doors to rooms, escape staircase and corridors to contain the smoke and/or fire.
- Proceed to nearest exit and evacuate safely
- Do not use lift in case of fire
- Proceed to the designated Assembly Point
- Do not re-enter building until it is safe to do so

For NUS CERT team:

1. CESSCC will activate CERT of the fire to CERT using IDEN set, CERT will arrive within 5 minutes of activation
2. On arrival CERT member will go to the FCC and locate which level the fire is located at, CERT will also try to look for the fire warden or coordinator for information of the fire and room involved
3. CERT member will then use the fire lift and stop 2 floors below the fire floor and proceed to the fire floor using the staircase
4. On arrival to the incident area CERT will do an appreciation of scene and report the findings to Command Centre through IDEN set and start fighting the fire with CAF backpack and fully donned
5. In the instance CAF backpack runs out of foam, CERT would look for fire hose reel and continue fighting the fire
6. If fire is out of control CERT will retreat to a safe area and wait for SCDF to arrive
7. On SCDF arrival SIC will meet up with them and do a handover to SCDF regarding the information needed pertaining to the fire incident, e.g. any casualty in the building, location of fire, contents of fire.

8. CERT Members will then support SCDF in their fire and rescue operations when needed/requested.
9. SIC will liaise with NUS senior management to update the situation of the fire and give information needed e.g. Shutdown required.

For CES

1. CES shall ensure that security personnel are deployed at the ground floor staircase exits to guide staff/students/guests/visitors to the designated assembly area when the fire alarm is activated.
2. Ensure that all main entrances and exits to/from the building are adequately manned to prohibit unauthorized entry and to intensify patrolling in the vicinity of affected building.
3. Ensure that security personnel are detailed to direct traffic to facilitate the movement of evacuees at points where they cross roads to reach assembly point.

For CES CPT:

1. On activation from CES by IDEN, CPT will proceed to the building as soon as possible
2. CPT will follow CERT to the FCC and up 2 floors below fire floor
3. CPT will help in evacuation 2 floors above and below fire floor

CHEMICAL SPILL

Minor spills in the labs:

1. Notify lab supervisor and report the location of the spill and type of chemical involved.
2. If a person has been splashed by the chemical, immediately head to the nearest eyewash and shower station. Rinse thoroughly with water for at least 15 minutes.
3. Evacuate persons in the immediate area if necessary.
4. The spill should be clean up **ONLY** by those with suitable training and equipment (MSDS and spill response kits are available in the lab, use these documents for information and correct procedure)
5. Wear personal protective equipment (goggles, gloves, respirators, shoe covers)

6. Use the chemical spill response kit provided in the lab to neutralize and absorb/contain the spill.
7. Collect waste & seal in proper container and label it clearly.
8. Should the spill or leak result in fire, follow the procedure marked for response to fire.

Major spills in the labs

Notify **CES** (Tel No: 6516 1616 / 6874 1616), **Singapore Civil Defense Force** (Tel No: 995), **National Environment Agency Ops Centre** (Tel: 6731 9333 & 9731 0346) or **NEA Call Centre** (Tel: 1800-2255632), & lab supervisor of the chemical spill and state the following:

- a) Location of the incident
 - b) Nature of material spilled, if known
 - c) Injury to personnel, if known
 - d) Informant's particulars and contact number
- Assist any injured persons. Isolate contaminated persons.
 - Avoid contamination or chemical exposure.
 - Close doors or control access to spill site.
 - Communicate critical spill information to first responders.
 - Follow evacuation procedures (If necessary).
 - Should the spill or leak result in fire, follow the procedure marked for response to fire.

Prior to responding to any chemical spills, lab users should be familiar with the hazards involved. DO NOT attempt to handle a spill without understanding the risk involved.

If lab users are unfamiliar with handling chemical spillage:

- Leave the area and DO NOT attempt to clean up the spillage.
- Warn others of the spill.
- Notify lab supervisor & CES.
- Wait for further assistance.

BIOHAZARDOUS MATERIAL SPILL

Decontamination and Clean-up procedures

- Notify lab supervisor and report the location of the spill and material involved.
- For spill outside biosafety cabinet, evacuate area and allow potential aerosols to settle for at least 10 minutes. Post signage indicating spill clean-up in progress, if necessary.
- For spill inside Biosafety cabinet, leave the cabinet TURNED ON.
- Put on the proper Personal Protective Equipment
- (such as long-sleeved gowns, safety glasses or goggles, rubber gloves, and respirator, as necessary).
- Use the appropriate decontamination solution to treat the spill area. Pour it gently, directing its flow into the spill area, so that the area of spill is not increased.
- Cover the area with absorbent and allow sufficient contact time to absorb the spill (see decontamination solution recommendations for contact time).
- Transfer all materials from the spill area into an autoclave-able pan and autoclave all the clean-up materials. Alternatively, place in an appropriate biohazard waste container for collection by a designated contract waste collector.
- Wash and mop the spill area with decontamination solution for a second time.
- Remove gown, rubber gloves, safety glasses or goggles, and respirator (if necessary) and be sure to use appropriate decontamination solution prior to autoclaving for disposal or before disposal in the biohazard waste container.
- Wash hands thoroughly after the clean-up procedures.

Prior to responding to any biohazard spillage, lab users must thoroughly understand the hazards involved. DO NOT handle any spillage without understanding the risk involved, without the appropriate personal protective equipment, or if you simply do not feel comfortable doing so.

If lab users are unfamiliar with handling biohazard spillage:

- Leave the area and DO NOT attempt to clean up the spillage.
- Warn others of the spill.
- Notify lab supervisor & NUS CES
- Wait for further assistance.

GAS LEAKAGE

Inert or non-hazardous gas leakage

- Open all windows and doors to ventilate the area.
- Use a gas leak detector or soapy water or other suitable solution to detect location of leakage.
- Secure leakage by tightening, reconditioning or replacing the valve, regulators or tubing connections to equipment.
- If leak persists, move cylinder to a ventilated area, report to lab supervisor and consult supplier for assistance.

Cryogenic Fluid leak

- Open all windows and doors to ventilate the area.
- Shut off source of leakage if it's safe to do so.
- If leak persists, evacuate everyone out of the laboratory to avoid asphyxiation.
- Notify CES (Tel: 6516 1616 / 6874 1616), lab supervisor. Report the location of the leakage and type of gas involved.
- Consult supplier for assistance.

Toxic Chemical / Flammable gas leak

- Open all windows and doors to ventilate area.
- Shut off source of leakage if it's safe to do so.
- If leak persists, evacuate everyone out of the laboratory and raise the building fire alarm by activating the nearest fire alarm "break glass" call point.
- Remove all heat and sources of ignition.
- Notify CES (Tel: 6516 1616 / 6874 1616), Singapore Civil Defence Force (Tel No: 995) & lab supervisors. Report the location of the leakage and type of gas involved.
- Should the spill or leak result in fire, follow the procedure marked for response to fire.

3.2.4 (PHASE III) TO CLEAN UP / DECONTAMINATE AND RESUME NORMAL OPERATIONS.

3.2.4.1 Clean up Operations

In the event of a major chemical spillage in the labs, the spill will be absorbed by absorbent pads and contained in Hazmat waste bags for collection for disposal. Toxic waste collection contractors include SembCorp Industries Ltd (62675788),

Technochem Environmental Complex Pte Ltd (68623130) and Cramoil Singapore Pte Ltd (68611101).

In the event of a diesel spillage at the loading/unloading bay area, the spill will be absorbed and contained by using adsorbents spill kits, sandbags, saw dust bags and spill containment drums. A professional cleaning team shall be engaged:

- 1) Unifine Chemical Pte Ltd, Tel: 6365 6565,
Email: unifine@singnet.com.sg
- 2) Chem-Solv Technology Pte Ltd, Tel: 6861 4277/4278

3.3 GROUPING AND TASKS (STANDARDIZED)

The role and responsibilities of various groups for example, the Site Main Controller (SMC), Site Incident Controller (SIC), Company Emergency Response Team (CERT) members, Fire Safety Manager (FSM), Fire Safety Coordinator (FSC), Fire Wardens and Security Personnel, etc.

Refer to ANNEX B

3.4 KEY PERSONNEL EMERGENCY CONTACT NUMBERS

Refer to Annex D - PED

4 SERVICE SUPPORT

4.1 FIXED INSTALLATIONS

4.1.1 FIRE / HAZMAT PROTECTION FACILITIES

4.1.1.1 Detection System

The following fire detection systems are available in the building.

- Heat detectors.

4.1.1.2 Extinguishment System

The following extinguishing systems are available in the building.

Please refer to Annex C - PED

- Fire Extinguishers
- Hose reels

4.2 SAFETY AND FIRST AID EQUIPMENT

The typical contents of each first aid kit are as follows: Plaster 20s, Crepe bandage 5cm, Crepe bandage 10cm, sterile gauze 7.5cm X 7.5cm-4 ply x 5's, Hypoallergenic tape, Triangular bandage, Dressing scissors, Safety pins 12s, Latex disposable gloves, Sterile plastic eye shield, Sterile eye pad, One-way valve resuscitation kit, torch with battery, water for injection 20ml, first aid booklet.

AEDs are available at M14 and DSO.

4.3 OTHER PROTECTION AND GENERAL EQUIPMENT

Each lab or lab space is equipped with a set of spill response kit

Eyewash and shower stations are located within the research labs

Fire warden box is located at each level of the building.

Typical Contents of the fire warden box: fire warden vest (1), flashlight (1), fire emergency plan and updated list of staff, pencil (1), whistle (1), 3 light sticks (3), fire blanket (1), and laminated A4-sized paper printed with respective floor level (1). The box located at the fire command centre also contains a fire coordinator vest and the premises emergency data plan.

5 COMMAND AND SIGNAL

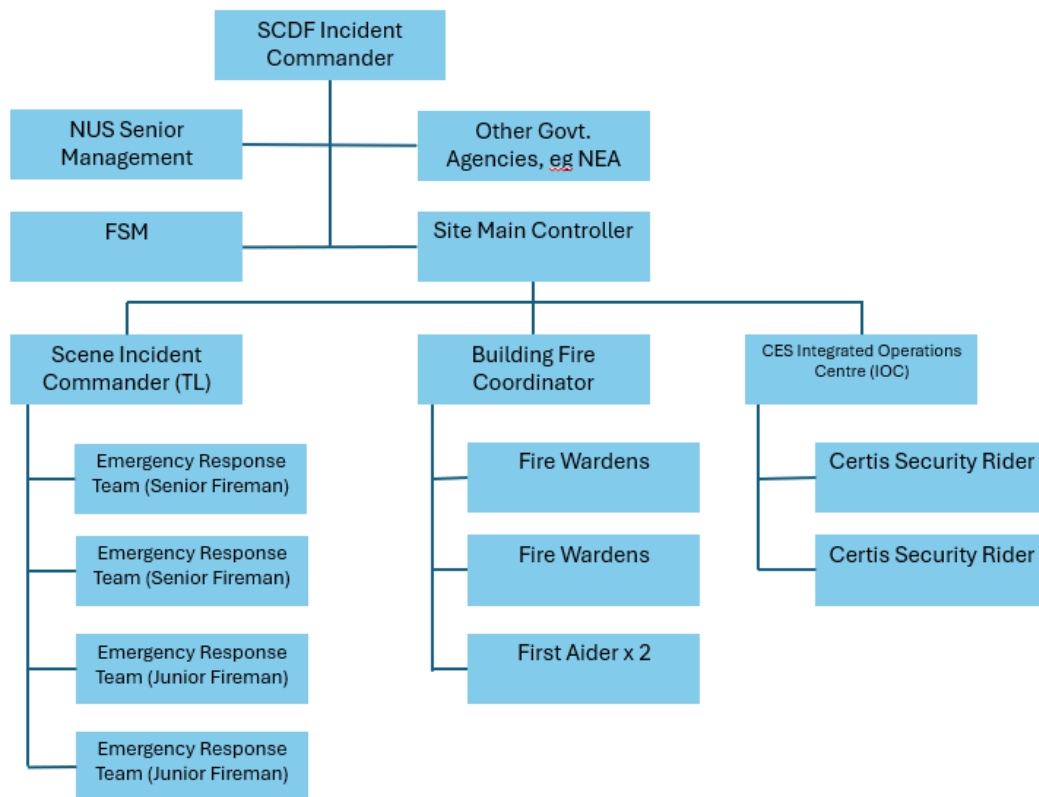
5.1 COMMAND STRUCTURE

5.1.1 INCIDENT ORGANISATION CHART

Incident Command Structure

5.1.2 LOCATION AND COMPONENT OF COMMAND CENTRE

The Fire Command Centre are identified in each of the building specific annex
C PED



ROLES AND RESPONSIBILITIES OF CERT (STANDARDIZED FOR ALL BUILDING)

SITE MAIN CONTROLLER (SMC)-

The SMC shall be a senior member of the installation management. He is the person who is overall in-charge of the emergency response operations in the installation and liaises with senior officials of government agencies such as SCDF, SPF, NEA, etc. Under circumstances whereby the SMC is unable to leave the plant, he/she may appoint another suitable representative to link up with the Incident Manager at TACT HQ.

THE KEY RESPONSIBILITIES OF THE SMC INCLUDES:

- (a) Coordinate the activities of external emergency organizations and work closely with the Incident Manager at TACT HQ during consequence management.
- (b) Provide TACT HQ with the following information:
 - i. Site Layout Map
 - ii. Building plan
 - iii. Company Emergency Response Plan.
 - iv. Company's hazmat inventory and location of hazmat inventory
 - v. Overall workers population.
 - vi. Incident resources available at site.
- (c) Provide the Incident Manager with the necessary information and decisions to any actions that concerns the company SOPs and policies;
- (d) Authorize the shutdown of operations in the installation;
- (e) Authorize the release of information to the media and government agencies; and
- (f) Assist the Incident Manager in determining the termination of the emergency and authorizing re-entry upon complete recovery.

SITE INCIDENT CONTROLLER (SIC)

The SIC shall be a senior member of the installation supervisory staff. He / She is the overall in-charge of the actual ground response operations. The SIC is to provide assistance and information to SCDF ground commander during operation.

THE KEY RESPONSIBILITIES OF SIC INCLUDES:

- (a) Establishing the on-site Emergency Response Team;

- (b) Sizing up incident situation and recommending response strategy and tactical plan;
- (c) Determining incident control zones;
- (d) Setting up field incident command post;
- (e) Commanding and directing emergency response team;
- (f) Ensuring emergency responders' safety and monitor personnel fatigue and stress;
- (g) Deploying emergency equipment and appliances;
- (h) Directing rescue operations if necessary;
- (i) Maintaining constant communication with SMC and the emergency responders;
- (j) Working closely with SCDF ground officer;
- (k) Ensuring proper decontamination of the equipment and responders; and
- (l) Coordinating recovery activities.

COMPANY EMERGENCY RESPONSE TEAM (CERT)

The CERT consists of personnel trained in basic emergency response actions such as firefighting, HazMat mitigation and other supporting activities such as security, evacuation, first aid etc.

Each local response team is also supported by a university-level rapid response team.

THE KEY RESPONSIBILITIES OF CERT INCLUDES:

- (a) Conduct basic emergency response actions such as firefighting and HazMat mitigation under the command of SIC;
- (b) Assists in emergency notification of neighbouring premises and conduct public protective actions under the command of SIC;
- (c) Accounting for personnel inside and outside of the hazard risk zone under the command of SIC / SMC and assist SIC / SMC to ensure on the smooth and orderly evacuation of all company's employees by guiding them to designated Evacuees Assembly Area (EAA);
- (d) Implementing In-Place protection (IPP) within the workplace under the command of SIC;
- (e) First Aid personnel should perform basic first aid on any casualty;
- (f) Security wardens should secure the company's premises and facilitate rapid movement of SCDF responders upon their arrival.

OTHER APPOINTMENT HOLDERS

FIRE SAFETY MANGER / ASSISTANT FIRE SAFETY MANGER

THE KEY RESPONSIBILITIES OF SENIOR FSM / FSM INCLUDES:

- (a) Ensure at all times that fire safety requirements contained in the Emergency Response Plan are complied with;
- (b) Supervise the maintenance of all fire safety works in the premises;
- (c) Ensure at all times that the occupant load of any part of any building does not exceed the capacity prescribed under the Fire Code;
- (d) Conduct daily checks within the premises and remove or cause to be removed any fire hazard that is found within the university;
- (e) Prepare an Emergency Response Plan for the premises and conduct fire drills for the occupants annually as may be stipulated Fire safety Regulations (Fire safety manager)
- (f) Ensure that all occupants are familiar with the means of escape located within the premises;
- (g) Prepare fire safety awareness for the occupants of the premises;
- (h) Train the occupants in the premises in first aid, firefighting and evacuation in the event of fire;
- (i) Co-ordinate and supervise the occupants within the premises in firefighting and in evacuation in the event of fire or other emergencies;
- (j) Supervise the operation of the Fire Command Centre in the event of fire or other emergencies;
- (k) Conduct at least 1 Table-Top Exercises within the university each year and to evaluate, together with the Fire Safety Committee, the effectiveness of the Emergency Response Plan for those premises;
- (l) Notify the SCDF immediately upon the occurrence of any fire or other emergencies and fire related mass casualty incident in the premises.

FIRE WARDENS / ASSISTANT FIRE WARDENS

THE KEY RESPONSIBILITIES OF FIRE WARDENS / ASSISTANT FIRE WARDENS INCLUDES:

- (a) Acquaint any new employee with the Emergency Response Plan including his specific role (if any) during an emergency;

Annex A

- (b) Be familiar with the Emergency Response Plan and means of escape of the building;
- (c) Be familiar with the operation of the fire alarm system and use of first aid, firefighting equipment.
- (d) Attend table top exercise and Fire Safety education and Fire Warden Course.

Detailed Grouping and Tasks

S/NO	GROUPING	GENERAL TASKS	PHASE	DETAILED TASKS	REMARKS
1	Site Main Controller	Overall In-charge of emergency response operations & liaise with government agencies.	I - Notify	Where required, raises alarm by activating the nearest fire alarm 'break-glass' call point.	
			II – Mitigation & evacuation	Carry out mitigation of emergency situation without endangering self.	
			III – Clean-up	Accounts for all occupants in the building. Ensure appropriate University authority and Government agencies are notified.	
2	Site Incident Controller	Overall In-charge of actual ground response operations.	I – Notification and activation	Where Fire alarm is triggered CHUBB will inform CESCC and CESCC will activate SIC and ERT members, ERT members will immediately proceed to affected building within 5 minutes.	

ANNEX B

			II – Mitigation & Evacuation	SIC will command and control ERT members on scene which will Carry out mitigation of emergency situation without endangering themselves In the situation where fire is out of control or when it is too risky to fight the fire SIC will command the ERT members to retreat and Await the arrival of the responding crew from SCDF at main entrance of building.	
			III – Hand over to SCDF and Clean-up	On SCDF arrival, SIC will then handover all the information on the incident to SCDF Officer .e.g. number of casualties, fire level, and actions conducted, SIC will then work hand in hand with SCDF officer to assist them in their operations. Ensure appropriate University authority such as CES, Office of Facility Management and Government agencies such as SCDF and the Police are notified.	
				Report to the SMC on the status of the situation and provide advice.	

ANNEX B

3	Emergency response Team member	In charge of Mitigating emergency situation where possible, firefighting and rescue., secondary duties are evacuation	I - Notify	ERT will be notified of fire alarm via I-den set and will be responding immediately upon activation, they will arrive not more than 5 minutes after activation	
			II – Mitigation & evacuation	Do AOS(appreciation of scene) and inform SIC on situation within the building e.g. location and cause of fire and number of casualties Carry out snatch rescue and firefighting Carry out other mitigation actions in the emergency situation without endangering self. Checks all rooms on the fire floor to ensure that no one is left behind. Keep communication with SIC at all times and listen to SIC instructions	

ANNEX B

			III – Hand over to responding SCDF forces and assisting of SCDF firefighting operation	Link up with SCDF personnel and hand over all information known of the emergency incident including exact location of fire, any casualties and actions done, If needed assist SCDF in their firefighting operation like checking of people which is not evacuated 2 floors up and down	T
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22 May 2026

**Department of Physiology
Yong Loo Lin School of Medicine**

Block MD9

NATIONAL UNIVERSITY OF SINGAPORE

FIRE EMERGENCY PLAN

2-stage alarm with 5 minutes auto evacuation

1 OBJECTIVE

- a. Purpose
- b. Fire Safety Committee
- c. Signal for Fire Alarm

2 ACTIONS TO BE TAKEN IN THE EVENT OF FIRE DURING OFFICE HOURS

- a. Informant
- b. All Staff
- c. Fire Safety Coordinator
- d. Fire Wardens
- e. Campus Security

3 FIRE OCCURRING OUTSIDE OFFICE HOURS

4 PEOPLE WITH DISABILITIES

5 DUTIES AND RESPONSIBILITIES

- a. Fire Safety Coordinator
- b. Fire Wardens
- c. Campus Security

6 FIRE EVACUATION DRILLS

7 APPENDICES

1 OBJECTIVE

a. Purpose

- (1) To ensure the safeguard of human lives in the event of fire.
- (2) To establish a systematic and orderly evacuation.
- (3) To ensure prompt raising of the fire alarm and marshalling of first aid firefighting efforts.

b. Fire Safety Committee

The Fire Safety Committee is formed in the department for achieving the above objective. It comprises the following appointment holders:

(See Appendix A for Name list and Contact Numbers of Fire Safety Committee)

- (1) Fire Safety Coordinator
- (2) Fire Wardens
- (3) Campus Security

c. Signal for Fire Alarm

Fire alarm activation followed by a pre-recorded evacuation message will be triggered automatically by:

- (1) Break-glass alarm system
- (2) Automatic heat detector

2 ACTIONS TO BE TAKEN IN THE EVENT OF FIRE DURING OFFICE HOURS

a. Informant

The person who discovers the fire shall immediately:

- (1) Raise the alarm by activating the nearest fire alarm “break-glass” call point.
- (2) Notify Campus Security (**Tel No: 6874 1616**) and Singapore Civil Defense Force (**Tel No: 995**) of the activation of fire alarm and state the following:
 - i. Location of the fire
 - ii. Nature of fire, if known
 - iii. Injury to personnel, if known
 - iv. Informant’s particulars and contact number

The caller shall not replace the telephone set until the address has been repeated by the operator at the SCDF Control Room.

- (3) Attempt to extinguish any incipient fire **without taking personal risk** provided he/she has been trained in the proper use of a fire extinguisher and is confident in his/her ability to cope with the hazards of a fire.

b. All Staff

1. Upon hearing the fire alarm, all staff shall stop their work, lock important documents, close doors, shut down electrical equipment etc. and evacuate immediately guided by their respective Fire Wardens.
2. All staff guided by the respective Fire Wardens should immediately evacuate by using the nearest exit and proceed to the assembly point when:
 - a. The announcement for evacuation announcement is declared over the public address system; or
 - b. Instructed by their Fire Wardens.
3. When evacuating, do not panic but quickly walk down the staircase by the nearest exit and proceed to the assembly area. **Do not use lifts.**
4. The assembly point is located at the Field **(Multi-Purpose Field) (See Appendix B for Site Plan of Assembly Point)**
5. All staff/students/guests/visitors shall not re-enter the building unless instructed otherwise by the SCDF Officer in attendance.

c. Fire Safety Coordinator

On hearing the fire alarm:

- (1) Proceed to Fire Command Centre (FCC) and ascertain location of the alarm from the main alarm panel and ensure that someone has been mobilized to respond to the alarm.
- (2) Ensure that the first fire alarm bell has been isolated automatically after ringing for not less than 10 seconds.
- (3) Ensure that the first alert announcement has been made on all floors.

“Ladies & Gentlemen, your attention please. An alarm has been activated in this building. We are investigating the cause. Please remain calm and standby for further instructions”

- (4) Ensure that the fire warden on the “fire” floor has been instructed to investigate the cause of alarm and report status.
- (5) Standby to receive status report on the “fire” floor and assess the need to declare total evacuation of the premises.
- (6) Ensure the following pre-recorded messages are played if the report states that:
 - (a) Total evacuation is necessary.

“Ladies & Gentlemen, your attention please. This is an emergency. All personnel are to evacuate the building now. Use the nearest staircase. Do not use lifts.”
 - (b) It is a false alarm.

“Ladies & Gentlemen, your attention please. We have investigated the situation and found it to be a false alarm. We regret for any inconvenience caused. Thank you”
- (7) Provide additional alert over the PA system as necessary to facilitate a safe egress from the building.
- (8) Ensure that the Campus Security and Singapore Civil Defense Force (SCDF) have been notified if there is a fire outbreak.
- (9) Proceed to the assembly point and ensure that the building evacuation status is monitored at the assembly point through reports obtained from the Fire Wardens.
- (10) Report the condition of the fire and number of people missing, if any, to the SCDF officer upon his arrival.

d. Fire Wardens

On hearing the 1st alert message:

- (1) Conduct physical check/verification at assigned floor for any signs of fire.
- (2) Contact the Campus Security or Fire Safety Coordinator to update on location and extend of fire upon confirmation so that evacuation can be considered.
- (3) Standby for evacuation if fire not on his/her floor.

On hearing the total evacuation message:

1. Effect evacuation immediately. Attempt to extinguish any incipient fire with the available firefighting equipment and **without taking personal risk.**
2. Check all classrooms, laboratories, offices, stores, toilets etc to ensure that no one is left behind.
3. Ensure that the disabled, children, pregnant women etc if present on their floor, are given particular attention during evacuation.
4. Leave the building after ascertaining that all areas responsible by the fire warden have been checked and evacuated. If area is unsafe, just report to Fire Safety Coordinator areas there were missed out so that SCDF can be alerted if necessary.
5. On reaching the assembly area, conduct a roll call of the staff/students/guests/visitors present and report to the Fire Safety Coordinator in person of the evacuation status. ***(See Appendix E for Floor Register)***
6. Ensure that no one re-enters the building until CES staff/security personnel said it is safe to do so.

e. Campus Security

- (1) Campus Security shall ensure that security personnel are deployed at the ground floor staircase exits to guide staff/students/guests/visitors to the designated assembly area when the fire alarm is activated.
- (2) Ensure that all main entrances and exits to/from the building are adequately manned to prohibit unauthorized entry and to intensify patrolling in the vicinity of affected building.
- (3) Ensure that security personnel are detailed to direct traffic to facilitate the movement of evacuees at points where they crossroads to reach assembly point.

3 FIRE OCCURRING OUTSIDE OFFICE HOURS

- a. In the event of an outbreak of fire after normal working hours, **Campus Security** will coordinate the evacuation process.
- b. Proceed to fight the fire from a safe distance with the available firefighting equipment and attempt to extinguish or control the fire **without taking personal risk.**

- c. All occupants shall proceed to a safe site outside MD9.
- d. No roll call will be conducted.
- e. The status of the Fire emergency will be informed by Campus Security.

During Office hours		After Office hours/Split team arrangement
Coordinators	Campus security Fire Safety Coordinator Safety Coordinator	Campus Security
Assembly Point	Multi-purpose field	A safe site (outside MD9)
Roll Call	Yes - at the assembly point	No
Status of Emergency	Will be informed by: Fire Safety coordinator Safety Coordinator	Will be informed by: Campus security

4 PEOPLE WITH DISABILITIES

- a. People with disabilities, particularly those who require wheelchairs or aids for walking may require assistance to evacuate the building or be aware the alarms are sounding.
- b. If such people are with a group's members, the group should assist the person to evacuate and the Coordinator should be informed of the event at the assembly point. The Coordinator should also be informed when the person is safely evacuated.
- c. Communicate with PWD staff members using clear and simple language, providing reassurance and guidance throughout the evacuation process.
- d. If safe to do so, immediately assist PWD staff members to evacuate the building using the predetermined evacuation routes.
- e. If evacuation chairs are available, trained personnel should assist PD staff members in using them to descend the stairs safely.
- f. If evacuation chairs are not available, assist non-ambulatory PWD staff members in moving to a designated safe area away from the fire and smoke.
- g. If insufficient assistance is available to offer effective assistance, staff should assist the disabled personnel to the nearest PWD area and use the emergency fire telephone to inform of the location where the personnel await rescue.

- h. MD9 does not have an internal designated PWD holding area. In an emergency, PWD personnel on the upper floors of MD9 will be escorted via the interconnected linkways to the designated PWD holding area located in MD10. If there are no PWD holding area, these areas can be used as a substitute:
 - I. Evacuation lift lobby.
 - II. Fire lift lobby.
 - III. Smoke-free lobby.
 - IV. External corridor.
 - V. Exit staircase.
- i. If any disabled staff/students are trapped and alone in the building should try to make their way to the nearest safe staircase or a safe location away from the fire and inform security or SCDF for help at **6874 1616 (Campus Security)** or **995 (Singapore Civil Defense Force)** of their situation and location.
- j. Avoid using elevators during a fire emergency unless specifically designated for evacuation and approved by emergency personnel.

5. DUTIES AND RESPONSIBILITIES

a. Fire Safety Coordinator

- (1) Represent the management of the building in respect of all fire Safety matters.
- (2) Has the full responsibility for:
 - (a) Establishment of a Fire Safety Committee
 - (b) Training of the employees
 - (c) Preparation, drafting and putting into force the Fire Emergency Plan
- (3) Ensure that the approved Fire Emergency Plan is abided by all staff of the building.
- (4) Ensure that exits, fire prevention and firefighting systems are in good order through regular inspections.
- (5) Record the date and time of each evacuation drill conducted on a form. This form must be kept in the office of the Coordinator for verification purposes.
(See Appendix D for Evacuation Drill Record Sheet)
- (6) Appoint one person as the acting Coordinator during his absence from the building.
- (7) Responsible to ensure training of responsible employees, within the building who are physically fit, to perform first aid/firefighting.

- (8) Ensure that exit doors are kept closed and unlocked during business hours and that hallways, corridors, lobbies and staircases are always kept free from obstruction.

b. Fire Wardens

- (1) Be familiar with the Fire Emergency Plan and means of escape of the building **(Refer to respective Floor Plan for Fire Escape Route)**
- (2) Be familiar with the operation of the fire alarm system and the use of first aid firefighting equipment.
- (3) Acquaint any new employees with the Fire Emergency Plan including his/her specific role *(if any)* during an emergency.
- (4) Liaise and coordinate with each other.

c. Campus Security

- (1) Be familiar with the Fire Emergency Plan.
- (2) Ensure that the security personnel are well versed with their roles as described in the Fire Emergency Plan.

6 FIRE EVACUATION DRILLS

- a. Fire evacuation drills shall be conducted at least once a year.
- b. All personnel in the building shall participate in the drill.

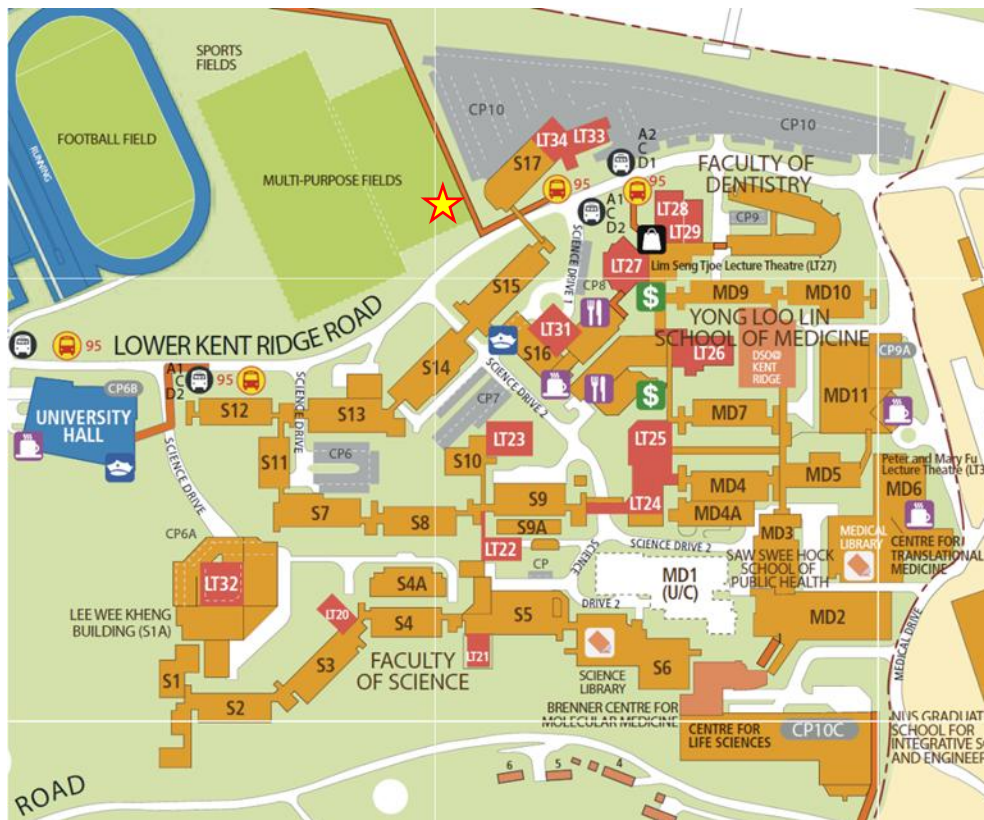
7 APPENDICES

- | | | |
|------------|---|---|
| Appendix A | – | Names and Contact Numbers of Committee Members |
| Appendix B | – | Site Plan of Assembly Point |
| Appendix C | – | Typical Floor Plan (Include location of Extinguishers, Hose reels, Alarm Panels, Manual Call Point & First Aid Boxes) |
| Appendix D | – | Evacuation Drill Record Sheet |
| Appendix E | – | Floor Register |
| Appendix F | – | Building Evacuation Status Chart |

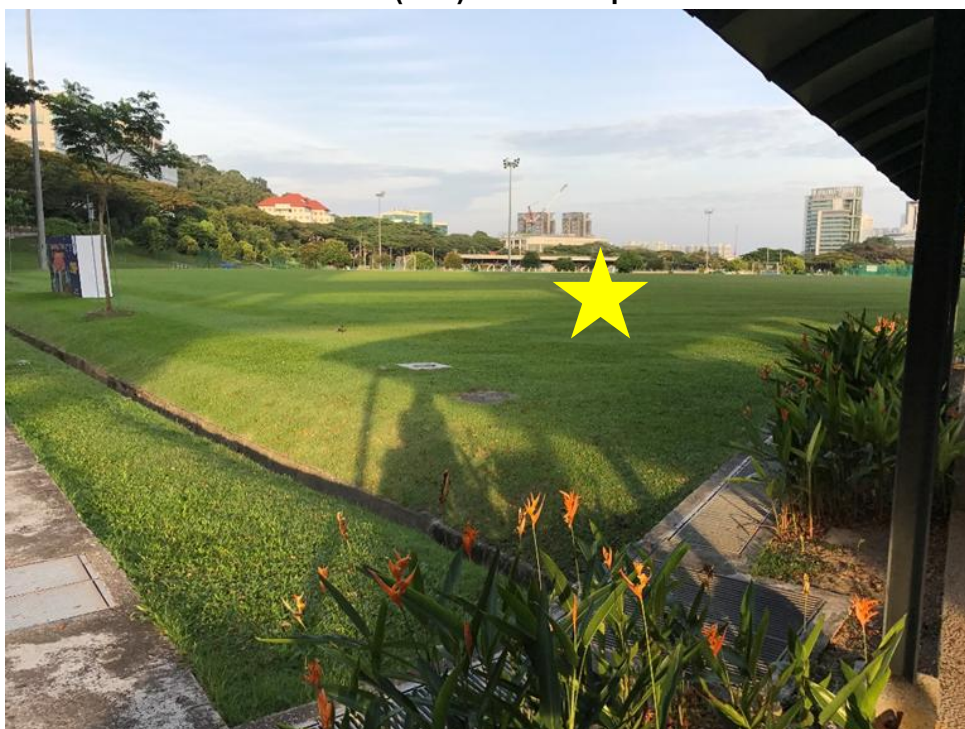
NAMES AND CONTACT NUMBERS OF FIRE SAFETY COMMITTEE MEMBERS

Name	Designation	Contact no.
Lim Hong Meng	Fire Safety Coordinator	66015878
Amanda Wong	Fire Warden – Level 1	66011893
Yeo Yongxin, Unis	Fire Warden – Level 2	66011893
Koh Shu Wen	Fire Warden – Level 3	66011893
Tiara Camelia	Fire Warden – Level 3	66011893
Diana Tan	Fire Warden – Level 4	65164890

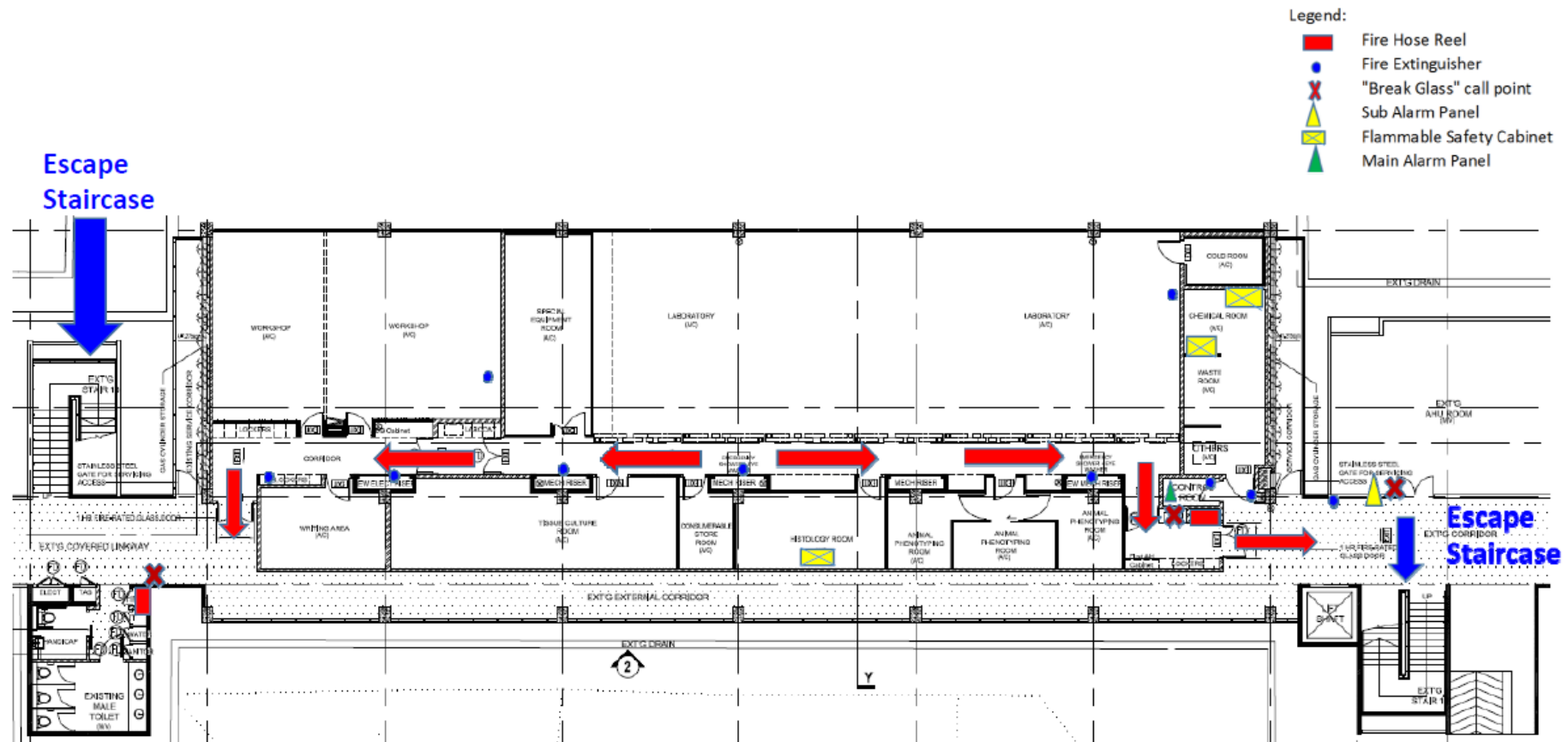
SITE PLAN OF ASSEMBLY POINT



ASSEMBLY POINT (A.P.) – Multi Purpose Fields

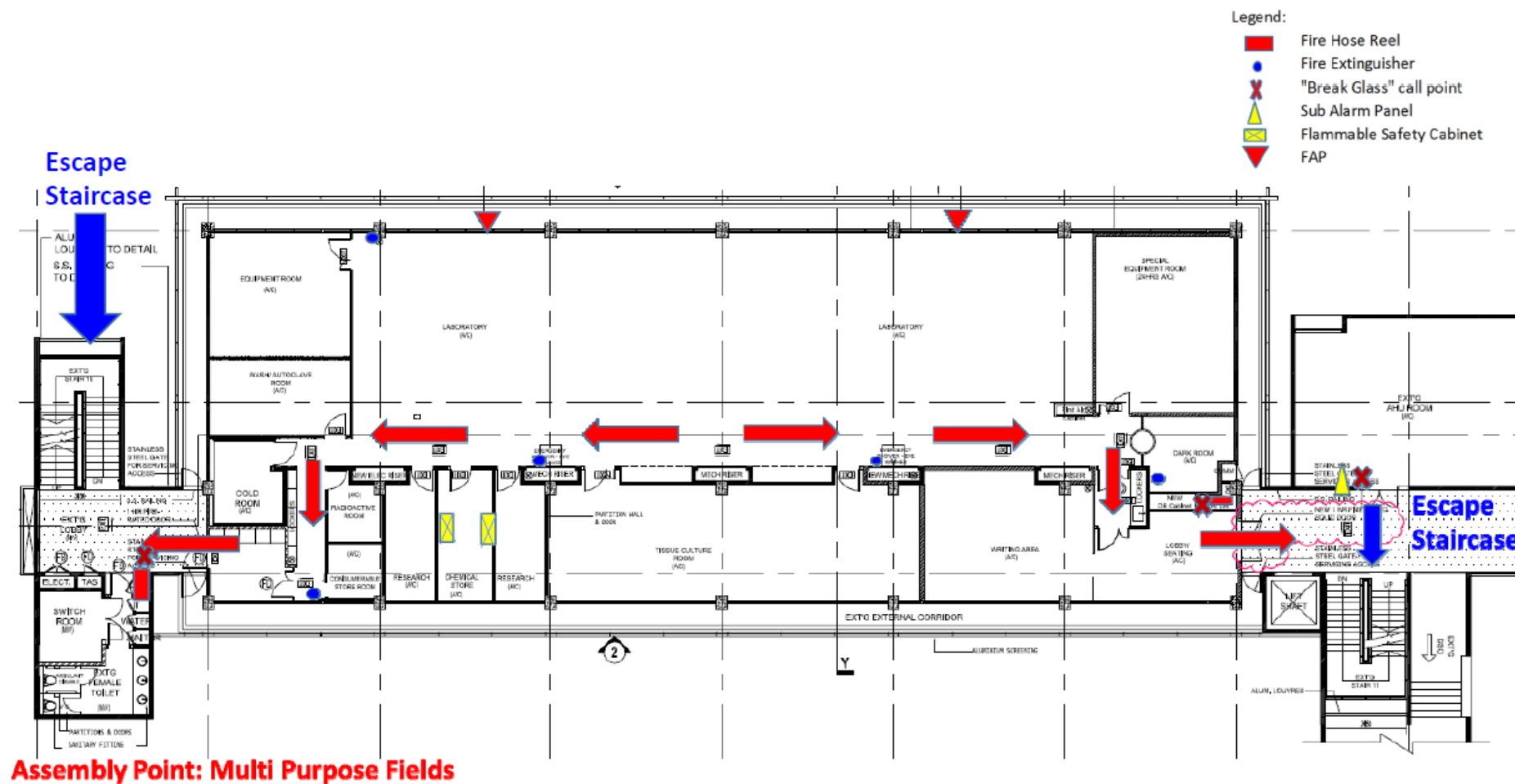


Map – Floor plan, Escape lifts, Escape Staircases (Level 1)

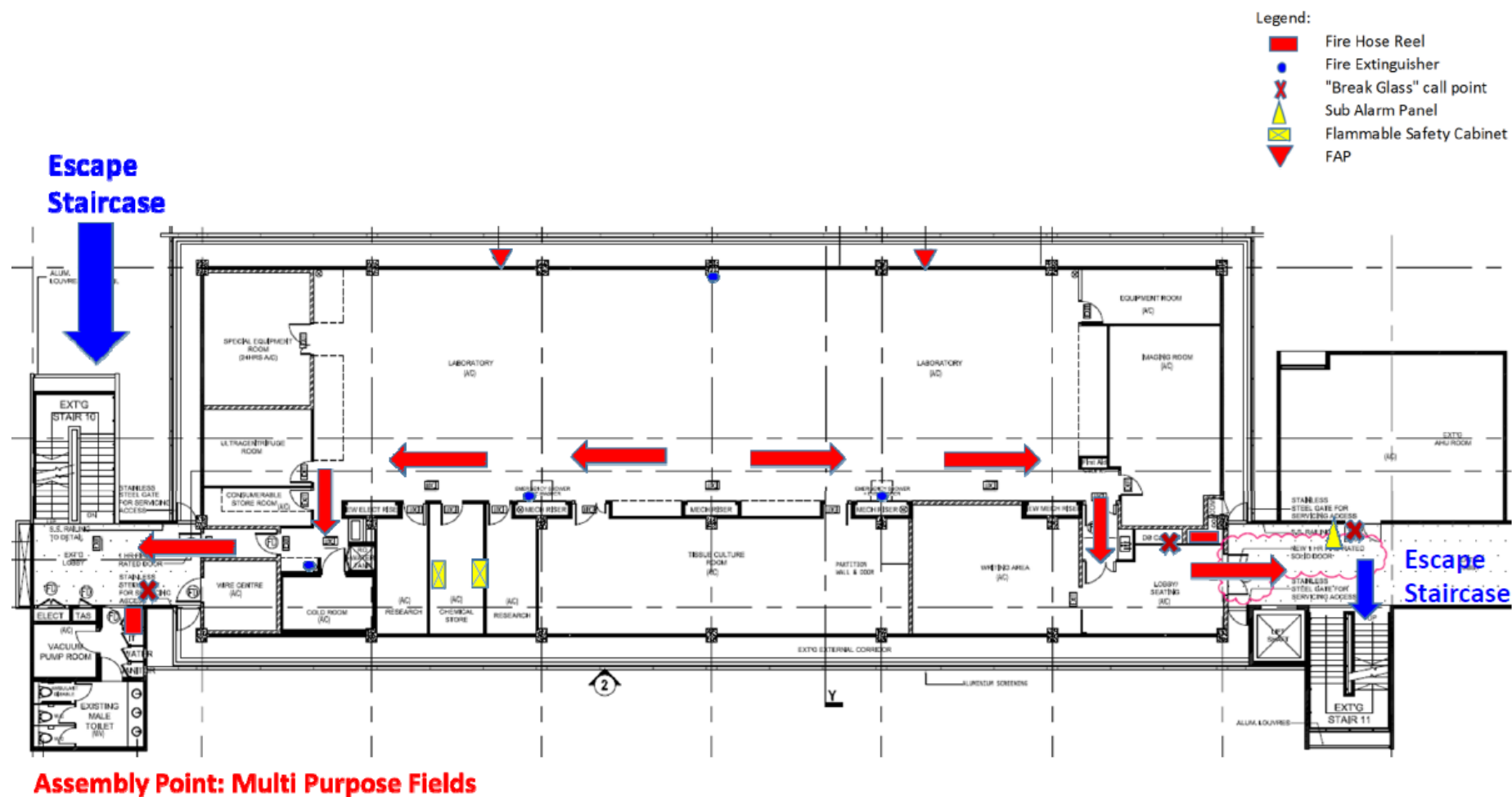


Assembly Point: Multi Purpose Fields

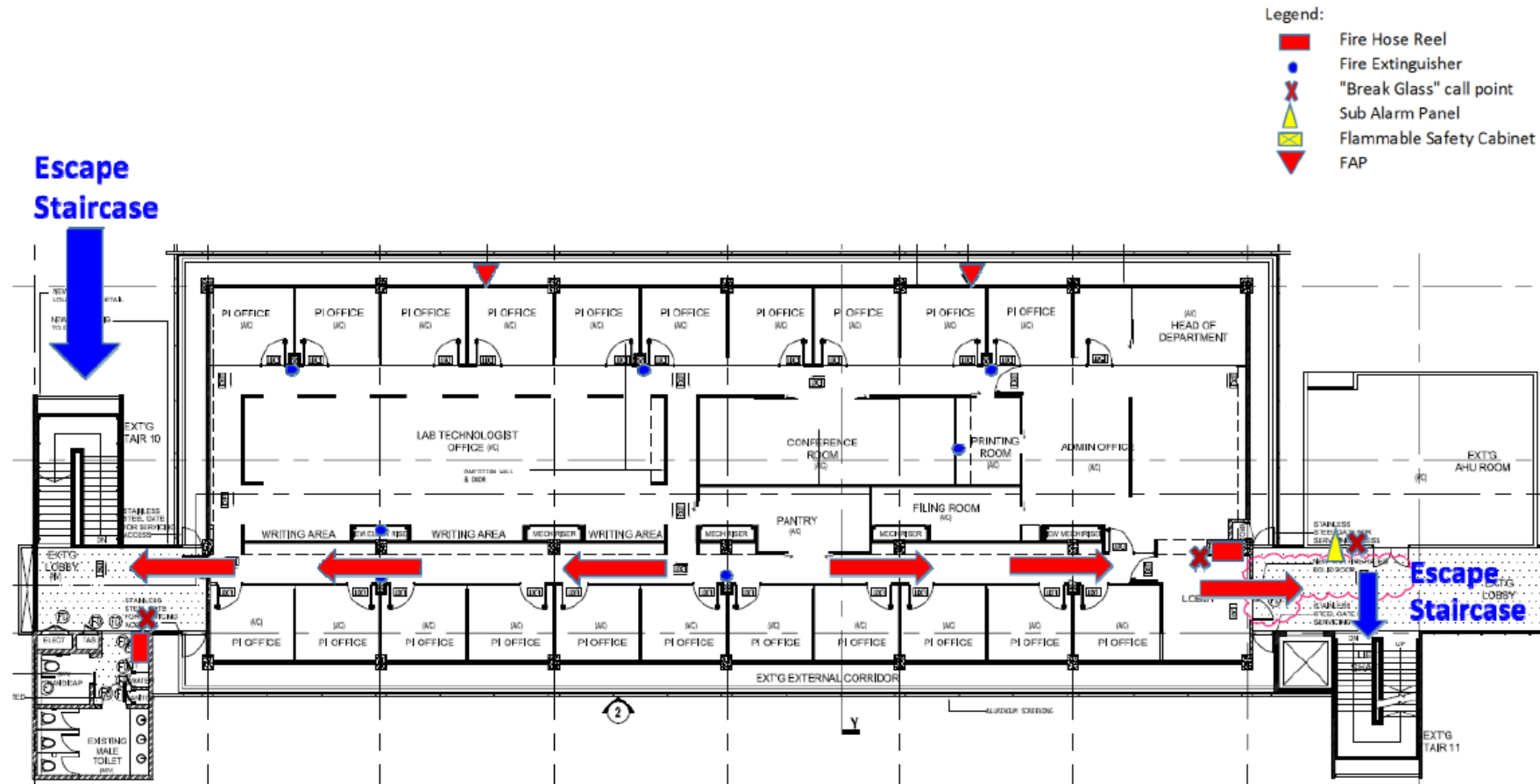
Map – Floor plan, Escape lifts, Escape Staircases (Level 2)



Map – Floor plan, Escape lifts, Escape Staircases (Level 3)



Map – Floor plan, Escape lifts, Escape Staircases (Level 4)



Assembly Point: Multi Purpose Fields

EVACUATION DRILL RECORD SHEET

I, the undersigned, designated as coordinator of the fire drill held by the Department of Physiology in the premises of MD 9 hereby certify that all the facts shown on the line or lines herein below opposite my signature are correct and further that each drill was successfully conducted in full compliance with the approved fire emergency plan.

DATE OF DRILL	TIME	FIRE FLOOR	NO. OF PARTICIPANTS	PARTICIPATION RATE (%)	EVACUATION TIME	NAME & SIGNATURE OF COORDINATOR
28 April 2004	9.30am	Level 1	60		< 10 min	Chong Oi Khuan
15 Aug 2005	2.55pm	Level 1	95	70.4	6 min	Chong Oi Khuan
27 Sep 2006	10.00am	Level 1	80	68.4	5 min	Chong Oi Khuan
2 Aug 2007	11.30am	Level 1	76	71.7	4 min	Chong Oi Khuan
30 July 2008	11.00 am	Level 1	70	68.0	4 min	Heng Ye Yong
30 July 2009	11.00 am	Level 1	66	71.0	4 min	Heng Ye Yong
4 Aug 2010	11.00 am	Level 1	72	87.8	4 min	Heng Ye Yong
25 June 2011	11.00 am	Level 1	62	63.9	4 min	Zaheedah Yahya
2 Aug 2013	11.00 am	Level 1	61	62.89	-	Zaheedah Yahya
30 July 2014	11.00 am	Level 1	63	66.32	2 min 15 secs	Majidah Rezlan
04 Aug 2015	02.10 pm	Level 1	67	58.26	3 min 15 secs	Ong Yeong Bing
27 July 2016	10.00 am	Level 1	59	60.82	3 min 45 sec	Uma Thambiayah
28 June 2017	10.30 am	Level 1	84	82.35	4 min 36 sec	Uma Thambiayah
06 July 2018	10.00 am	Level 2	61	53.04	4 min	Uma Thambiayah
11 June 2019	10.30 am	Level 1	58	46.77	4 min 24 sec	Uma Thambiayah
2020	No fire drill due to COVID-19 Pandemic					
2021	No fire drill due to COVID-19 Pandemic					
27 July 2022	3.30 pm	Level 3	39	44.3	7 min	Wong Hooi Ling
20 Sept 2023	11:00am	Level 2	31	36	5min 40 sec	Nurul Suhana
25 July 2024	3:00 pm	Level 2	24/77	37.66	7 min 52 sec	Suhana Ali
10 July 2025	10:00 am	Level 2	24/84	29.00	7 min	Lim Hong Meng

FLOOR REGISTER**Fire Wardens : Amanda Wong****Storey : MD 9, Department of Physiology, Level 1**

S/N	Unit no	Names of occupants	Evacuation Status	
			Present	Absent
1	A/Prof Thai Tran's Lab	Lee Zhao Yong		
2		Ong Hsiao Hui		
3		Joe TAN Yong Hwee		
4		Therese Hope Chua Anak Saa		
5		Xueer Yu		

FLOOR REGISTER

Fire Wardens : Unis Yeo

Storey : MD 9, Department of Physiology, Level 2

S/N	Unit no.	Names of occupants	Evacuation Status	
			Present	Absent
1	Prof Reshma Taneja's Lab	Giang Le Minh		
2		Meera Venugopal		
3		Prathiksha Nagarajan		
4		Shivaranjani Balamurugan		
5		Onkar Date		
6		Richa Anil Deorukhkar		
7		Vairavan Nanda Gopalan		
8		Lee Yan Rong		
1	Prof Shazib Pervaiz's Lab	Jayshree Hirpara		
2		Kartini Iskandar		
3		Nur Syafiqah Sulaiman		
4		Chan Xin Hui		
5		Janani Nataraj		
1	Dr Derrick Ong's Lab	Liang Yajing		
2		Krangvichian Pratomporn		
3		Jia Hao		
4		Toh Chin Hean		

FLOOR REGISTER

Fire Wardens : Koh Shu Wen, Tiara Camelia

Storey : MD 9, Department of Physiology, Level 3

	Unit no	Names of occupants	Evacuation Status	
			Present	Absent
1	A/Prof Chen Zhi Xiong's Lab	Nur Fatimah Farzanah Binte Jalaludin		
2		Ruth Ashokan		
3		Rhena Gan Pei Ying		
1	Prof Hanry Yu's Lab	Sun Lingyu		
2		Ng Inn Chuan		
3		Kartik Mitra Venkat		
4		Hoang Mai Thanh Truc		
5		Vishnu Goutham Kota		
6		Zhang Zhiyi		
7		Zheng Kexiao		
8		Li Guang		
9		Zhou Hanzhang Helen		
10		Chin Sze Khen		
11		Loh Jia Xin		
1	Dr. Ivan Low Cherh Chiet's Lab	Michiko-Naomi Abigail		
2		Naomi Estelle Ng		
3		Chen Tingyu Chloe		
4		Mohamed Corleon Bin Mohamed Nasir		
1	A/P Celestial Yap's Lab	Dr. Deng Shuo		
2		Lewin Raymarc Roldan Turqueza		

1	Dr Tsai Shih-Yin's Lab	Dong Han		
2		Huang Chien Yung		
3		Banerjee Chandreyi		

FLOOR REGISTER

Fire Wardens : Diana Tan

Storey : MD 9, Department of Physiology, Level 4

	Unit no	Names of occupants	Evacuation Status	
			Present	Absent
1	HOD	Reshma Taneja		
2	Faculty Staff	Chen Zhi Xiong		
3		Zakaria Ali Moh. Almsheerqi		
4		Shazib Pervaiz		
5		Ivan Low Cherh Chiet		
6		Manoor Prakash Hande		
7		Tsai Shih-Yin		
8		Derrick Ong Sek Tong		
9		Noof Abdullah Saad Shaif		
10		Hanry, Yu		
11		Koh Dow Rhoon		
12		Celestial T Yap Suen Mei		
13		John Wang Chee Keng		
14		Amanda Wong		
15		Wong Lik Wei		
16		Ira Agrawal		
17		Swapna Haresh Teckwani		
18		Hooi Shing Chuan		
19		Thai Tran		
20		Jason Lee Kai Wei		
21		Nathasha Luke		

22	Admin Staff	Diana Tan Boon Choo		
23		Kamsitah Binte Boreng		
24		Hoe Lee Hwee		
25		See Huimin		
26		N Rathnambal		
27	Lab Staff	Chong Oi Khuan		
28		Koh Shu Wen (Xu Shuwen)		
29		Lim Hong Meng (Lin Hongming)		
30		Tiara Camelia Binte Zuraini		
31		Unis Yeo Yongxin		
32		Lau En Lin		

BUILDING EVACUATION STATUS CHART

Fire Safety Coordinator : Lim Hong Meng

Building : MD 9 Department of Physiology

Storey	Names of Fire Warden	Evacuation Status	
		Cleared	Not Cleared
Level 1	Amanda Wong		
Level 2	Unis Yeo		
Level 3	Koh Shu Wen		
	Tiara		
Level 4	Diana Tan		

SINGAPORE CIVIL DEFENCE FORCE PREMISES EMERGENCY DATA	
Name of premises	Department of Physiology, MD9
Category	INDUSTRIES/ COMMERCIAL BUILDINGS/ OTHERS (PLS STATE ____INSTITUTION____)
Sensitive	Yes / No
Approving Officer	SCDF
Remarks	
Super Category	None
Address	Block / House No.: Department of Physiology, MD9 Street Name: 2, Medical Drive Unit #:- Building Name: Department of Physiology, MD9 Postal Code: 117593

2. BUILDING OR PREMISE INFORMATION	
Reference No	NA
Name of Building or Premise	MD9
Address of Premises (if applicable)	2, Medical Drive, Singapore 117593
GSP1 Grid Reference (if applicable)	
Description or Remarks	Research Laboratories and Office
Is the building IPP ready	Yes/ No

3. LOCAL FIRE STATION	
SCDF Division	SCDF Division (1st Division)
SCDF Fire Station	Clementi Fire Station

4. KEY CONTACT PERSON DETAILS	
Main DID Line	6601 5878
Name	Lim Hong Meng
NRIC/FIN/PP	Sxxx334C
Appointment	Fire Safety Coordinator
Address	MD9, Level 4
Office Number	6601 5878
Fax number	6778 8161
Handphone Number	91453545
Email Address	phslimh@nus.edu.sg

5. PED TEMPLATE

1. OCCUPANCY LOAD

LOCATION	PEAK HRS	NO. OF OCCUPANTS (PEAK HRS)	NON-PEAK HRS	NO. OF OCCUPANTS (NON-PEAK HRS)
MD9- Level 1	0800-1800	7	1800-0800	4
MD9- Level 1 Workshop	0800-1800	70	1800-0800	0
MD9- Level 2	0800-1800	25	1800-0800	15
MD9- Level 3	0800-1800	25	1800-0800	10
MD9- Level 4	0800-1800	32	1800-0800	5

2. Total Premises Occupancy

NO. OF OCCUPANTS(PEAK HRS)	NO. OF OCCUPANTS(NON-PEAK HRS)
80	34

3. OCCUPANCY USAGE & KEY ACTIVITIES

BLOCK / TOWER	LEVEL	USAGE & KEY ACTIVITIES
MD9	Level 1	Laboratories
MD9	Level 1	Workshop for lectures/ seminars
MD9	Level 2	Laboratories
MD9	Level 3	Laboratories
MD9	Level 4	Offices

4. KEY PERSONNEL CONTACT DIRECTORY (MINIMUM 2 PERSONS)

NAME	DESIGNATION	TO INDICATE EMERGENCY APPOINTMENT (SITE MAIN CONTROLLER OR SITE INCIDENT CONTROLLER OR CERT MEMBER)	TEL NO. (DAY)	TEL NO. (NIGHT)	H/P NO.
Lim Hong Meng	Fire Safety Coordinator	-	6601 5878	91453545	91453545
Unis Yeo Yongxin	Safety Coordinator	-	6601 5878	91456898	91456898

5. IN-HOUSE ERT RESOURCES

Emergency Response Team
Rapid Response Team

a. Manpower Details

S/NO.	MANPOWER	CAPABILITIES
01	06	Firefighting, CPR + AED

b. Equipment Details (For Companies with CERT teams)

S/NO.	EQUIPMENT	QUANTITY	LOCATION
01	SCBA	06	Level 05

c. Appliance Details

S/NO.	APPLIANCES	CAPABILITIES
-	-	-

6. FIRE RISKS

LOCATION	DESCRIPTION	CONTENTS & QUANTITY	UN NO. & HAZCHEM CODE	KEY PROTECTION SYSTEMS
Level 1	P & FM	250 L	-	Fire Extinguisher
Level 2	P & FM	250 L	-	Fire Extinguisher
Level 3	P & FM	250 L	-	Fire Extinguisher

Refer to Toxic Industrial Chemical in Appendix

7. FIRE PROTECTION SYSTEMS			
a. Fire Command Centre			
LOCATION	PA / INTERCOM SYSTEM	MAIN ALARM PANEL IN FCC	
Level 1	Yes	Yes	
b. Fire Alarm System			
S/NO.	LOCATIONS OF MAIN ALARM PANEL	LOCATIONS OF SUB-ALARM PANEL	
01	Block S16/ Level 1	Every level (1-4)	
c. Fire Evacuation Plan (FEP) / Emergency Response Plan (ERP)			
S/NO.	LOCATION OF FEP	ASSEMBLY AREA	NO. OF FIRE WARDENS
01	Fire Warden Box (all 4 levels)	Multi-Purpose Field	7

d. Fire Suppression Systems			
S/NO.	DETECTOR TYPE	AVAILABILITY	LOCATION
01	SPRINKLER	Yes/No	-
02	CO/HALON/FM200 SYSTEM	Yes/No	-
03	PUMP ROOM	Yes/No	Level 3 #MD9-03-VAC
04	WATER TANK	Yes/No	-
05	OTHER SYSTEMS Heat Detector/ Smoke Detector	Yes/No	Each level
06	FIRE EXTINGUISHERS	Yes/No	Each level
07	HOSEREELS	Yes/No	Each level -2

Wet Risers			
S/NO.	LOCATION OF INLET	INLET NO.	FLOOR SERVED

-	-	-	-
---	---	---	---

e. Rising Mains

Dry Risers

S/NO.	LOCATION OF INLET	INLET NO.	FLOOR SERVED
1	Beside the level toilet	MD9 DR2-1	1, 2, 3, 4
2	Near the lift lobby	MD9 DR2-2	1, 2, 3, 4

f. Fire Lifts / Staircases

S/NO.	LIFT NO.	STAIRCASE NO.	LOCATION	FLOOR SERVED
01	-	1	Beside lift	1-5

g. Other Lifts / Staircase

S/NO.	LIFT NO.	STAIRCASE NO.	LOCATION	FLOOR SERVED
01	PL 1	-	Beside fire staircase	1-4
02	-	1	Toilet side	1-4

8. TIC RISKS - STATE NA IF NOT APPLICABLE

LOCATION	DESCRIPTION	CONTENTS & QUANTITY	PROTECTION SYSTEM
Please see the Appendix – refer to the inventory list in LMMS			

9. TIC MITIGATION & CONTAINMENT SYSTEMS - STATE NA IF NOT APPLICABLE

S/NO.	MITIGATION & CONTAINMENT SYSTEM	LOCATION	REMARKS
01	Fire rated room/door	Chemical store (Level 1-3)	
02	Flammable Safety Cabinet	Level 1-3	

	Corrosive Cabinet Poison cabinet		
03	Fume hood	Level 1-3	
04	Air purge button	Level 1-3	
05	Chemical spill kit	Level 1-3	
06	Firefighting system (heat and smoke detectors, hose reel, fire extinguishers)	All 4 levels	

10. BIOLOGICAL AGENTS - STATE NA IF NOT APPLICABLE

LOCATION	DESCRIPTION	CONTENTS & QUANTITY	PROTECTION SYSTEM
Please see the Appendix			

11. BIOLOGICAL PROTECTION SYSTEMS - STATE NA IF NOT APPLICABLE

S/NO.	BIOLOGICAL PROTECTION	LOCATION	REMARKS
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01	Biological Safety Cabinet	Level 1-3	
02	Biological Spill kit	Level 1-3	

12. RADIOACTIVE AGENTS - STATE NA IF NOT APPLICABLE			
LOCATION	DESCRIPTION	HALF-LIFE	PROTECTION SYSTEM
N.A	-	-	-

13. RADIOLOGICAL PROTECTION SYSTEMS - STATE NA IF NOT APPLICABLE			
S/NO.	RADIOLOGICAL PROTECTION	LOCATION	REMARKS
N.A			

14. IMPORTANT & SENSITIVE INSTALLATIONS - STATE NA IF NOT APPLICABLE			
LOCATION	DESCRIPTION	OCCUPANCY	USAGE
N.A			

15. MOBILITY RISKS - STATE NA IF NOT APPLICABLE

LOCATION	NO.OF PEOPLE WITH MOBILITY RISK	HOURS WITH REDUCED STAFF ON DUTY
N.A		

16. PREMISES WITH COMPLEX DESIGNS - STATE NA IF APPLICABLE

LOCATION	CAPACITY OF STRUCTURE	TYPE OF RESCUE REQUIRED
N.A		

17. ADJACENT BUILDINGS / INSTALLATIONS

NAME OF INSTALLATION	HRI CLASS	MARINE PED CATEGORY	PED REFERENCE NO.
MD10	-	-	-

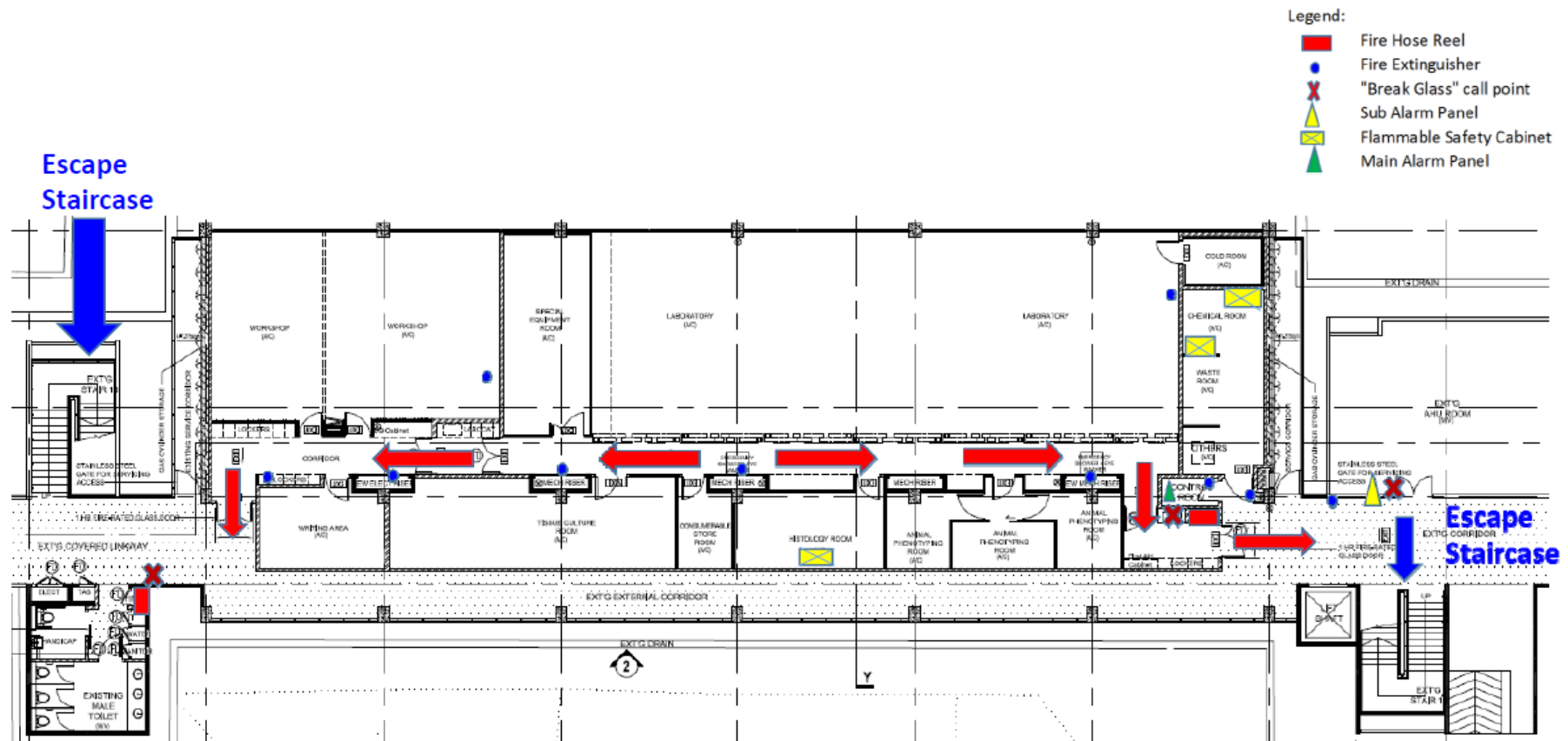
18. MARINE PREMISES - ESTIMATED TIME ARRIVAL FOR SCDF MARINE FIRE VESSELS

RESPONDING MARINE FIRE STATION	UNMOORING	TIME TAKEN TO DESTINATION	TOTAL TIME TAKEN FOR DESTINATION
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19. MARINE PREMISES - LANDING POINTS					
LOCATION	SEA DEPTH (LOW TIDE)	SEA DEPTH (HIGH TIDE)	LANDING POINTS FOR IRB TO BEACH?	OTHER INFO (EG. GANGWAY AVAILABLE, STRONG CURRENTS, CORAL HAZARDS, ETC)	
20. MARINE PREMISES - JETTY DESCRIPTION					
LOCATION	LENGTH OF JETTY	HEIGHT OF JETTY TO WATERLINE (AT LOWEST TIDE)	HEIGHT OF JETTY TO WATERLINE (AT HIGHEST TIDE)	DISTANCE BETWEEN TWO FENDERS OF JETTY	DISTANCE BETWEEN FENDER EDGE OF JETTY

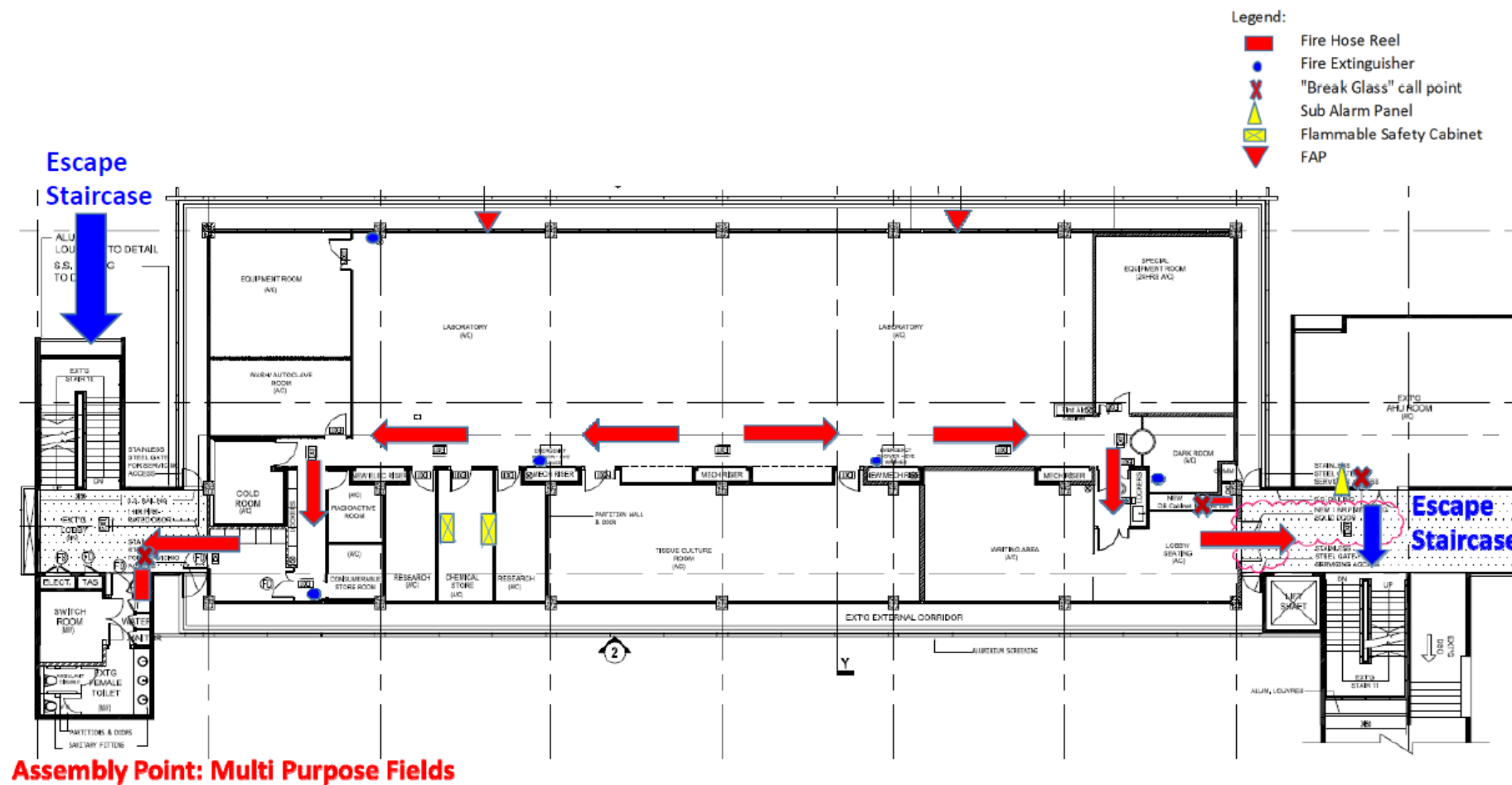
6. WATER SUPPLY					
WATER SUPPLY					
a) Hydrant		1 Private water Hydrant			
(1) Private Hydrant					
S/NO	HYDRANT	LOCATION	FLOWS (l/s)	PRESSURE	REMARKS
01	NUS 128	Near to MD10, entrance lane	-	200psi, 4-5bars	-
(2) Public Hydrant					
S/NO	HYDRANT	LOCATION	FLOWS (l/s)	PRESSURE	REMARKS

Map – Floor plan, Escape lifts, Escape Staircases (Level 1)



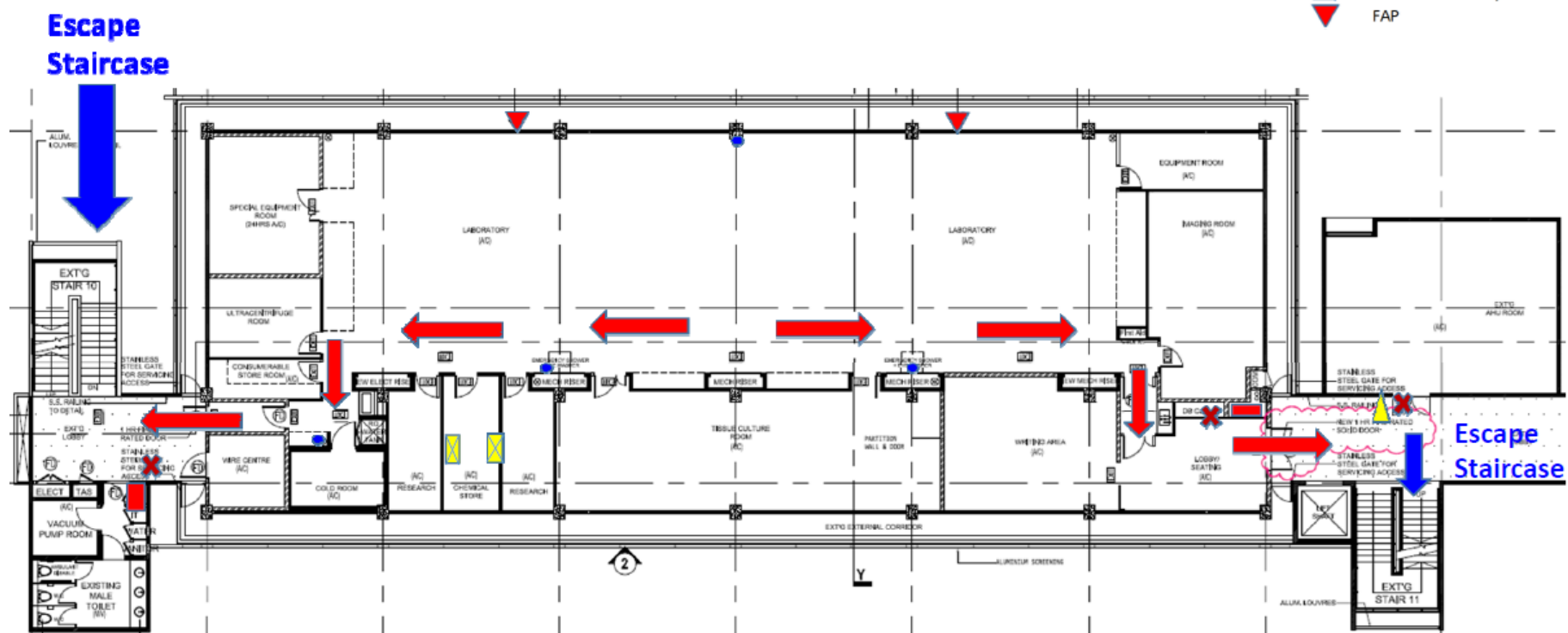
Assembly Point: Multi Purpose Fields

Map – Floor plan, Escape lifts, Escape Staircases (Level 2)



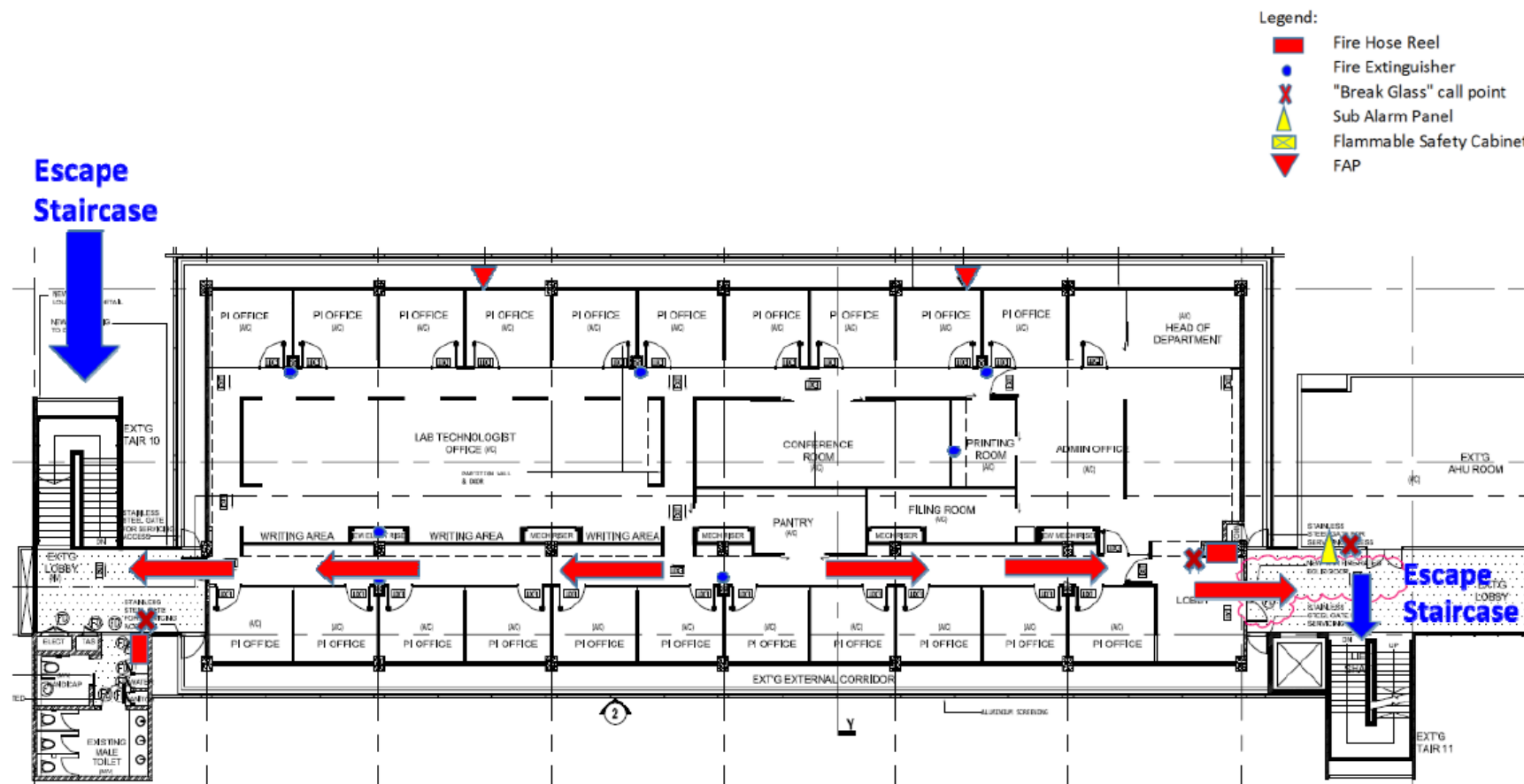
Map – Floor plan, Escape lifts, Escape Staircases (Level 3)

- Legend:
- Fire Hose Reel
 - Fire Extinguisher
 - ✕ "Break Glass" call point
 - ▲ Sub Alarm Panel
 - Flammable Safety Cabinet
 - ▼ FAP



Assembly Point: Multi Purpose Fields

Map – Floor plan, Escape lifts, Escape Staircases (Level 4)



Assembly Point: Multi Purpose Fields

List 1 – Toxic Industrial Chemical – Regulated Hazardous Chemical (Extract from LMMS)

Chemical Name	Chemical Type
ISOPROPANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
3-XYLENE	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
BORIC ACID	SINGLE CHEMICAL
SODIUM FLUORIDE	SINGLE CHEMICAL
SULPHINPYRAZONE	SINGLE CHEMICAL
NEOMYCIN SULFATE	SINGLE CHEMICAL
POTASSIUM HYDROXIDE	SINGLE CHEMICAL
ACETONE	SINGLE CHEMICAL
3-METHYLBUTANOL	SINGLE CHEMICAL
AMMONIUM HYDROXIDE	SINGLE CHEMICAL
SULPHINPYRAZONE	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
FORMALDEHYDE	SINGLE CHEMICAL
FORMALDEHYDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
POTASSIUM HYDROXIDE	SINGLE CHEMICAL
SODIUM ARSENITE	SINGLE CHEMICAL
ETHANAL	SINGLE CHEMICAL
FORMALDEHYDE	SINGLE CHEMICAL

FORMALDEHYDE	SINGLE CHEMICAL
FORMALDEHYDE	SINGLE CHEMICAL
PHENOL	SINGLE CHEMICAL
CHLORAMPHENICOL	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
CARBENICILLIN SODIUM	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL
NYSTATIN	SINGLE CHEMICAL
DOXORUBICIN HYDROCHLORIDE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
DIMETHYLFORMAMIDE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
SODIUM BORATE	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
HYDROCORTISONE	SINGLE CHEMICAL
FLUOROURACIL	SINGLE CHEMICAL
FLUOROURACIL	SINGLE CHEMICAL
CHLORAMPHENICOL	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
POTASSIUM FERRICYANIDE	SINGLE CHEMICAL

CHLOROFORM	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
HYDROXYUREA	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
CISPLATIN	SINGLE CHEMICAL
CHLORAMPHENICOL	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
ETOPOSIDE	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL
PARAQUAT DICHLORIDE	SINGLE CHEMICAL
DOXYCYCLINE	SINGLE CHEMICAL
DOXYCYCLINE	SINGLE CHEMICAL
TAMOXIFEN	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
TETRACYCLINE HYDROCHLORIDE	SINGLE CHEMICAL
3-METHYLBUTANOL	SINGLE CHEMICAL
PYRIDINE	SINGLE CHEMICAL
XYLENE	SINGLE CHEMICAL
BORIC ACID	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
NITRIC ACID	SINGLE CHEMICAL
POTASSIUM HYDROXIDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL

SODIUM HYDROXIDE	SINGLE CHEMICAL
SULFURIC ACID	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
POTASSIUM HYDROXIDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
ACETONE	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
ATENOLOL	SINGLE CHEMICAL
CHLORAMPHENICOL	SINGLE CHEMICAL
CHLORAMPHENICOL	SINGLE CHEMICAL
CLOZAPINE	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
ETHYL ACETATE	SINGLE CHEMICAL
TETRAHYDROFURAN	SINGLE CHEMICAL
HEXANE	SINGLE CHEMICAL
N-BUTYL ALCOHOL	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
SODIUM FLUORIDE	SINGLE CHEMICAL
IRON(III) CHLORIDE	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
PARAQUAT DICHLORIDE	SINGLE CHEMICAL
VERAPAMIL HYDROCHLORIDE	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
FLUOROURACIL	SINGLE CHEMICAL

FLUOROURACIL	SINGLE CHEMICAL
FLUOROURACIL	SINGLE CHEMICAL
CISPLATIN	SINGLE CHEMICAL
CISPLATIN	SINGLE CHEMICAL
ETOPOSIDE	SINGLE CHEMICAL
ETOPOSIDE	SINGLE CHEMICAL
ETOPOSIDE	SINGLE CHEMICAL
CARBOPLATIN	SINGLE CHEMICAL
CARBOPLATIN	SINGLE CHEMICAL
INDOMETHACIN	SINGLE CHEMICAL
BUSULPHAN	SINGLE CHEMICAL
ALLOPURINOL	SINGLE CHEMICAL
CHLORAMPHENICOL	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
DIMETHYLFORMAMIDE	SINGLE CHEMICAL
SODIUM DEOXYCHOLATE	SINGLE CHEMICAL
HYDROCORTISONE	SINGLE CHEMICAL
SODIUM DEOXYCHOLATE	SINGLE CHEMICAL
AMINOCAPROIC ACID	SINGLE CHEMICAL
PROBENECID	SINGLE CHEMICAL
FORMALDEHYDE	SINGLE CHEMICAL
FORMALDEHYDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL

SODIUM HYDROXIDE	SINGLE CHEMICAL
POTASSIUM HYDROXIDE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
TESTOSTERONE	SINGLE CHEMICAL
INDOMETHACIN	SINGLE CHEMICAL
SALBUTAMOL	SINGLE CHEMICAL
PREDNISONE	SINGLE CHEMICAL
AMPICILLIN	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
NITRIC ACID	SINGLE CHEMICAL
FORMALDEHYDE SOLUTION FOR MOLECULAR BIOLOGY, 36.5-38% IN H ₂ O	MIXTURE
ETHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
XYLENE	SINGLE CHEMICAL

ACETONITRILE	SINGLE CHEMICAL
EOSIN Y SOLUTION, ALCOHOLIC, WITH PHLOXINE	MIXTURE
HYDROCHLORIC ACID	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
CHLOROQUINE DIPHOSPHATE	SINGLE CHEMICAL
APROTININ	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
(-)-NICOTINE HYDROGEN TARTRATE SALT	SINGLE CHEMICAL
ETOPOSIDE	SINGLE CHEMICAL
PROTEIN ASSAY DYE REAGENT CONCENTRATE	MIXTURE
ISOPROPANOL	SINGLE CHEMICAL
EOSIN Y SOLUTION, ALCOHOLIC, WITH PHLOXINE	MIXTURE
WRIGHT-GIEMSA STAIN, MODIFIED	MIXTURE
PHENYLMETHANESULFONYL FLUORIDE SOLUTION	MIXTURE
ACETIC ACID	SINGLE CHEMICAL
UREA	SINGLE CHEMICAL
UREA	SINGLE CHEMICAL
UREA	SINGLE CHEMICAL
UREA	SINGLE CHEMICAL
GENTAMICIN SULFATE	SINGLE CHEMICAL
HYDROGEN PEROXIDE	SINGLE CHEMICAL
NITRIC ACID	SINGLE CHEMICAL

FLUOROURACIL	SINGLE CHEMICAL
DIMETHYLFORMAMIDE	SINGLE CHEMICAL
DIMETHYLFORMAMIDE	SINGLE CHEMICAL
TETRAHYDROFURAN	SINGLE CHEMICAL
ACETONITRILE	SINGLE CHEMICAL
ACETONITRILE	SINGLE CHEMICAL
ACETONITRILE	SINGLE CHEMICAL
FORMALDEHYDE	SINGLE CHEMICAL
ACETONITRILE	SINGLE CHEMICAL
ACETONE	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
ETHYL ETHER	SINGLE CHEMICAL
FORMIC ACID	SINGLE CHEMICAL
PHENOL	SINGLE CHEMICAL
ACETONE	SINGLE CHEMICAL
ARTEMISININ	SINGLE CHEMICAL
SODIUM DITHIONITE	SINGLE CHEMICAL
XYLENE	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
CHLOROQUINE DIPHOSPHATE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
ETHYL ETHER	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
ETOPOSIDE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL

ANNEX D

UREA	SINGLE CHEMICAL
CHLORPROMAZINE HYDROCHLORIDE	SINGLE CHEMICAL
ESTRADIOL	SINGLE CHEMICAL
HYDROXYCHLOROQUINE SULFATE	SINGLE CHEMICAL
AMPICILLIN TRIHYDRATE	SINGLE CHEMICAL
CELECOXIB	SINGLE CHEMICAL
APROTININ	SINGLE CHEMICAL
AMPICILLIN	SINGLE CHEMICAL
CLONIDINE HYDROCHLORIDE	SINGLE CHEMICAL
PHENOL	SINGLE CHEMICAL
NITRIC ACID	SINGLE CHEMICAL
IRON(III) CHLORIDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
GEFITINIB	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
HYDROCORTISONE	SINGLE CHEMICAL
ETOPOSIDE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
BORIC ACID	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL

ANNEX D

DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
TRI REAGENT	MIXTURE
METFORMIN HYDROCHLORIDE	SINGLE CHEMICAL
TAMOXIFEN	SINGLE CHEMICAL
TETRACYCLINE	SINGLE CHEMICAL
TETRACYCLINE	SINGLE CHEMICAL
TETRACYCLINE	SINGLE CHEMICAL
MINOXIDIL	SINGLE CHEMICAL
EMETINE HYDROCHLORIDE	SINGLE CHEMICAL
PENICILLIN-STREPTOMYCIN (10,000 U/ML)	MIXTURE
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
LITHIUM CARBONATE	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
HYDROGEN PEROXIDE	SINGLE CHEMICAL
XYLENE	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL
ETHYL ACETATE	SINGLE CHEMICAL
ETHYL ACETATE	SINGLE CHEMICAL

PHENOL	SINGLE CHEMICAL
PHENOL	SINGLE CHEMICAL
PHENOL	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
GENTAMICIN SULFATE	SINGLE CHEMICAL
LEAD(IV) ACETATE	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
QUININE	SINGLE CHEMICAL
SULFURIC ACID	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
(-)-EPINEPHRINE (+)-BITARTRATE SALT	SINGLE CHEMICAL
PREDNISOLONE	SINGLE CHEMICAL
CARBAMAZEPINE	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL
BUDESONIDE	SINGLE CHEMICAL
SODIUM VALPROATE	SINGLE CHEMICAL
CYTARABINE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
PROGESTERONE	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
PROPAN-1-OL	SINGLE CHEMICAL

SODIUM DITHIONITE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
AMMONIUM HYDROXIDE	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
CHLOROQUINE DIPHOSPHATE	SINGLE CHEMICAL
SODIUM TETRABORATE DECAHYDRATE	SINGLE CHEMICAL
POTASSIUM FLUORIDE	SINGLE CHEMICAL
FORMALDEHYDE SOLUTION FOR MOLECULAR BIOLOGY, 36.5-38% IN H ₂ O	MIXTURE
PERMOUNT MOUNTING MEDIA	MIXTURE
ACETIC ACID	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
DPX MOUNTANT FOR HISTOLOGY	MIXTURE
EOSIN Y SOLUTION, ALCOHOLIC	MIXTURE
EOSIN Y SOLUTION, ALCOHOLIC	MIXTURE
SODIUM HYDROXIDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
DOXORUBICIN HYDROCHLORIDE	SINGLE CHEMICAL
DOXORUBICIN HYDROCHLORIDE	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
HYDROXYUREA	SINGLE CHEMICAL
HYDROXYUREA	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL

MITOMYCIN	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL
CISPLATIN	SINGLE CHEMICAL
PENICILLIN-STREPTOMYCIN (10,000 U/ML)	MIXTURE
ANTIBIOTIC/ANTIMYCOTIC SOLUTION	MIXTURE
ISOPROPANOL	SINGLE CHEMICAL
DIMETHYLFORMAMIDE	SINGLE CHEMICAL
AMIODARONE	SINGLE CHEMICAL
SODIUM BOROHYDRIDE	SINGLE CHEMICAL
DIMETHYLFORMAMIDE	SINGLE CHEMICAL
AMMONIUM HYDROXIDE	SINGLE CHEMICAL
AMILORIDE HYDROCHLORIDE	SINGLE CHEMICAL
CHLORPROMAZINE HYDROCHLORIDE	SINGLE CHEMICAL
CHLORZOXAZONE	SINGLE CHEMICAL
CIPROFLOXACIN	SINGLE CHEMICAL
CLOZAPINE	SINGLE CHEMICAL
HYDROCORTISONE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
LABETALOL HYDROCHLORIDE	SINGLE CHEMICAL
MOXIFLOXACIN HYDROCHLORIDE	SINGLE CHEMICAL
NEFAZODONE HYDROCHLORIDE	SINGLE CHEMICAL
PHENACETIN	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL
AMILORIDE HYDROCHLORIDE	SINGLE CHEMICAL
DEXTROMETHORPHAN HYDROBROMIDE	SINGLE CHEMICAL
DEXTROMETHORPHAN HYDROBROMIDE	SINGLE CHEMICAL

ANNEX D

DIMETHYL SULFOXIDE	SINGLE CHEMICAL
DISOPYRAMIDE	SINGLE CHEMICAL
FENOFIBRATE	SINGLE CHEMICAL
GEMFIBROZIL	SINGLE CHEMICAL
HEPARIN SODIUM	SINGLE CHEMICAL
HEPARIN SODIUM	SINGLE CHEMICAL
PROBENECID	SINGLE CHEMICAL
PROGESTERONE	SINGLE CHEMICAL
FLUTAMIDE	SINGLE CHEMICAL
SERTRALINE HYDROCHLORIDE	SINGLE CHEMICAL
SULINDAC	SINGLE CHEMICAL
TESTOSTERONE	SINGLE CHEMICAL
TETRACYCLINE HYDROCHLORIDE	SINGLE CHEMICAL
THEOPHYLLINE	SINGLE CHEMICAL
THEOPHYLLINE	SINGLE CHEMICAL
TICLOPIDINE HYDROCHLORIDE	SINGLE CHEMICAL
(S)-TIMOLOL MALEATE	SINGLE CHEMICAL
(S)-TIMOLOL MALEATE	SINGLE CHEMICAL
TOLBUTAMIDE	SINGLE CHEMICAL
TROVAFLOXACIN MESYLATE	SINGLE CHEMICAL
SODIUM VALPROATE	SINGLE CHEMICAL
VERAPAMIL HYDROCHLORIDE	SINGLE CHEMICAL
HYDROCORTISONE	SINGLE CHEMICAL
PENICILLIN-STREPTOMYCIN (10,000 U/ML)	MIXTURE
SERTRALINE HYDROCHLORIDE	SINGLE CHEMICAL

ANNEX D

TESTOSTERONE	SINGLE CHEMICAL
AMPHOTERICIN B	SINGLE CHEMICAL
CLARITHROMYCIN	SINGLE CHEMICAL
GLUCAGON	SINGLE CHEMICAL
HEPARIN SODIUM	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL
TAMOXIFEN	SINGLE CHEMICAL
PACLITAXEL	SINGLE CHEMICAL
PACLITAXEL	SINGLE CHEMICAL
PACLITAXEL	SINGLE CHEMICAL
METFORMIN HYDROCHLORIDE	SINGLE CHEMICAL
INSULIN	SINGLE CHEMICAL
PHENFORMIN HYDROCHLORIDE	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
DOXYCYCLINE HYCLATE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
GENTAMICIN SULFATE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
FLUTICASONE PROPIONATE	SINGLE CHEMICAL

ACTINOMYCIN	SINGLE CHEMICAL
ARTESUNATE	SINGLE CHEMICAL
PENICILLIN STREPTOMYCIN	MIXTURE
PENICILLIN STREPTOMYCIN	MIXTURE
BERBERINE BISULFATE	SINGLE CHEMICAL
SPECTINOMYCIN DIHYDROCHLORIDE PENTAHYDRATE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
COLLAGENASE A	MIXTURE
HYDROCHLORIC ACID	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
CAPECITABINE	SINGLE CHEMICAL
AMMONIUM HYDROXIDE	SINGLE CHEMICAL
AMINOCAPROIC ACID	SINGLE CHEMICAL
DEFEROXAMINE MESYLATE	SINGLE CHEMICAL
METFORMIN HYDROCHLORIDE	SINGLE CHEMICAL
CISPLATIN	SINGLE CHEMICAL
FLUOROURACIL	MIXTURE
VINBLASTINE SULFATE SALT	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
GABAPENTIN	SINGLE CHEMICAL
SIROLIMUS	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL

QIAZOL LYSIS REAGENT	MIXTURE
QIAZOL LYSIS REAGENT	MIXTURE
FORMALDEHYDE	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
SODIUM AZIDE	SINGLE CHEMICAL
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	SINGLE CHEMICAL
APROTININ	SINGLE CHEMICAL
QUINIDINE	SINGLE CHEMICAL
UREA	SINGLE CHEMICAL
UREA	SINGLE CHEMICAL
PROPRANOLOL HYDROCHLORIDE	SINGLE CHEMICAL
LANSOPRAZOLE	SINGLE CHEMICAL
GLIBENCLAMIDE	SINGLE CHEMICAL
DEXAMETHASONE	SINGLE CHEMICAL
IBUPROFEN	SINGLE CHEMICAL
KETOCONAZOLE	SINGLE CHEMICAL
DIHYDROETHIDIUM (HYDROETHIDINE)	MIXTURE
DENATURED ETHANOL	MIXTURE
SODIUM FLUOROACETATE	SINGLE CHEMICAL
SODIUM FLUOROACETATE	SINGLE CHEMICAL
SODIUM FLUOROACETATE	SINGLE CHEMICAL
FORMALDEHYDE SOLUTION 37%	MIXTURE
TRIZOL LS REAGENT	MIXTURE
TERT-BUTYL HYDROPEROXIDE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
SODIUM FLUOROACETATE	SINGLE CHEMICAL
ORLISTAT	SINGLE CHEMICAL
FLUCONAZOLE	SINGLE CHEMICAL

TMRE-MITOCHONDRIAL MEMBRANE POTENTIAL ASSAY KIT	MIXTURE
NITRIC ACID	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
HYDROGEN PEROXIDE	SINGLE CHEMICAL
TRETINOIN	SINGLE CHEMICAL
CHLORAMPHENICOL	SINGLE CHEMICAL
HYDROXYCHLOROQUINE SULFATE	SINGLE CHEMICAL
OSELTAMIVIR PHOSPHATE	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
VINCRIStINE SULFATE	SINGLE CHEMICAL
TAMOXIFEN	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
DPX MOUNTANT FOR HISTOLOGY	MIXTURE
HEMATOXYLIN SOLUTION, GILL NO. 1	MIXTURE
ACETIC ACID	SINGLE CHEMICAL
TRIZOL REAGENT	MIXTURE
ETHANOL	SINGLE CHEMICAL
ACETONE	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
DOXORUBICIN HYDROCHLORIDE	SINGLE CHEMICAL
PHOSPHATASE INHIBITOR COCKTAIL (EDTA FREE)	MIXTURE
ETHANOL	SINGLE CHEMICAL
SODIUM FLUORIDE	SINGLE CHEMICAL

CYCLOSPORIN	SINGLE CHEMICAL
CISPLATIN	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
IONOMYCIN CALCIUM SALT (WITH DMSO)	MIXTURE
FORMALDEHYDE	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
FLUTICASONE PROPIONATE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
ACTINOMYCIN	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
ACETONE	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
INSULIN, HUMAN RECOMBINANT	MIXTURE
INSULIN, HUMAN RECOMBINANT	MIXTURE
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
PENICILLIN G SODIUM	SINGLE CHEMICAL
PENICILLIN G SODIUM	SINGLE CHEMICAL
INDOMETHACIN	SINGLE CHEMICAL
CYCLOHEXANONE	SINGLE CHEMICAL
ACETONITRILE	SINGLE CHEMICAL
ISOPENTANE	SINGLE CHEMICAL
TUBOCURARINE HYDROCHLORIDE PENTAHYDRATE	SINGLE CHEMICAL
QIAZOL LYSIS REAGENT	MIXTURE
SODIUM HYDROXIDE	SINGLE CHEMICAL
ACETYL CYSTEINE	SINGLE CHEMICAL

CYTOSEAL 60	MIXTURE
HYGROMYCIN B	SINGLE CHEMICAL
AMPICILLIN	SINGLE CHEMICAL
PENICILLIN STREPTOMYCIN	MIXTURE
PENICILLIN STREPTOMYCIN	MIXTURE
PENICILLIN STREPTOMYCIN	MIXTURE
PENICILLIN STREPTOMYCIN	MIXTURE
ETHYL ACETATE	SINGLE CHEMICAL
DPX MOUNTANT FOR MICROSCOPY	MIXTURE
ARSENIC TRIOXIDE	SINGLE CHEMICAL
DIMETHYLFORMAMIDE	SINGLE CHEMICAL
HEMATOXYLIN SOLUTION, GILL NO. 1	MIXTURE
CHLOROQUINE DIPHOSPHATE	SINGLE CHEMICAL
ACETONE	SINGLE CHEMICAL
AMILORIDE HYDROCHLORIDE	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
DAUNORUBICIN HYDROCHLORIDE	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
HYGROMYCIN B IN PBS 50MG/ML	MIXTURE
PENICILLIN STREPTOMYCIN	MIXTURE
DIPHThERIA TOXIN	MIXTURE
AMILORIDE HYDROCHLORIDE	SINGLE CHEMICAL
IDOXURIDINE	SINGLE CHEMICAL
MYCOPHENOLIC ACID	SINGLE CHEMICAL
MYCOPHENOLIC ACID	SINGLE CHEMICAL
QIAZOL LYSIS REAGENT	MIXTURE
QIAZOL LYSIS REAGENT	MIXTURE
QIAZOL LYSIS REAGENT	MIXTURE
PENICILLIN-STREPTOMYCIN (10,000 U/ML)	MIXTURE
PHENOL:CHLOROFORM:ISOAMYL ALCOHOL 25:24:1 SATURATED WITH 10 MM TRIS, PH 8.0, 1 MM EDTA	MIXTURE
ETHYL ETHER	SINGLE CHEMICAL

ANNEX D

SODIUM AMPICILLIN	SINGLE CHEMICAL
TEMOZOLOMIDE	SINGLE CHEMICAL
TEMOZOLOMIDE	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
TEMOZOLOMIDE	SINGLE CHEMICAL
TEMOZOLOMIDE	SINGLE CHEMICAL
TEMOZOLOMIDE	SINGLE CHEMICAL
ACETONE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
HALOPERIDOL	SINGLE CHEMICAL
SODIUM FLUORIDE	SINGLE CHEMICAL
UREA	SINGLE CHEMICAL
CHLOROQUINE DIPHOSPHATE	SINGLE CHEMICAL
PROGESTERONE	SINGLE CHEMICAL
AMPHOTERICIN B	SINGLE CHEMICAL
MITOMYCIN	SINGLE CHEMICAL
VANCOMYCIN HYDROCHLORIDE	SINGLE CHEMICAL
METRONIDAZOLE	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
SULFURIC ACID	SINGLE CHEMICAL
FORMALDEHYDE	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
XYLENE	SINGLE CHEMICAL
MOCLOBEMIDE	SINGLE CHEMICAL

PERFECTA SYBR GREEN FASTMIX	MIXTURE
PERFECTA SYBR GREEN FASTMIX	MIXTURE
PERFECTA SYBR GREEN FASTMIX	MIXTURE
PERFECTA SYBR GREEN FASTMIX	MIXTURE
PERFECTA SYBR GREEN FASTMIX	MIXTURE
PERFECTA SYBR GREEN FASTMIX	MIXTURE
PERFECTA SYBR GREEN FASTMIX	MIXTURE
PERFECTA SYBR GREEN FASTMIX	MIXTURE
ETHANOL	SINGLE CHEMICAL
ACETONITRILE	SINGLE CHEMICAL
ACETONITRILE	SINGLE CHEMICAL
SODIUM AMPICILLIN	SINGLE CHEMICAL
PENICILLIN-STREPTOMYCIN-GLUTAMINE (100X)	MIXTURE
CHLORAMPHENICOL	SINGLE CHEMICAL
TETRACYCLINE HYDROCHLORIDE	SINGLE CHEMICAL
ACETYL CYSTEINE	SINGLE CHEMICAL
CARBENICILLIN SODIUM	SINGLE CHEMICAL
PHENELZINE SULPHATE SALT	SINGLE CHEMICAL
KANAMYCIN SULPHATE	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
HYGROMYCIN B	SINGLE CHEMICAL
LITHIUM CARBONATE	SINGLE CHEMICAL
AMPHOTERICIN B	SINGLE CHEMICAL
ACETIC ACID	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
ANTIBIOTIC ANTIMYCOTIC SOLUTION (100X)	MIXTURE
ANTIBIOTIC ANTIMYCOTIC SOLUTION (100X)	MIXTURE
ANTIBIOTIC ANTIMYCOTIC SOLUTION (100X)	MIXTURE
ANTIBIOTIC ANTIMYCOTIC SOLUTION (100X)	MIXTURE
ANTIBIOTIC ANTIMYCOTIC SOLUTION (100X)	MIXTURE
ANTIBIOTIC ANTIMYCOTIC SOLUTION (100X)	MIXTURE
ANTIBIOTIC ANTIMYCOTIC SOLUTION (100X)	MIXTURE

ANNEX D

HYGROMYCIN B	MIXTURE
HYGROMYCIN B	MIXTURE
ISOPROPANOL	SINGLE CHEMICAL
PROTEIN A-AGAROSE	MIXTURE
ISOFLURANE	SINGLE CHEMICAL
ISOFLURANE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
NEOMYCIN SULFATE	SINGLE CHEMICAL
(MOUSE ON MOUSE) BLOCKING REAGENT	MIXTURE
AMINOCAPROIC ACID	SINGLE CHEMICAL
FLUORIDE ION SOLUTION FOR ISE	MIXTURE
FLUORIDE ION SOLUTION FOR ISE	MIXTURE
LYSOTRACKER	MIXTURE
FLUTICASONE PROPIONATE	SINGLE CHEMICAL
FLUTICASONE PROPIONATE	SINGLE CHEMICAL
FLUTICASONE PROPIONATE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ISOPENTANE	SINGLE CHEMICAL
PENICILLIN-STREPTOMYCIN (10,000 U/ML)	MIXTURE
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
INSULIN	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL

DIMETHYL SULFOXIDE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
QIAZOL LYSIS REAGENT	MIXTURE
QIAZOL LYSIS REAGENT	MIXTURE
QIAZOL LYSIS REAGENT	MIXTURE
QIAZOL LYSIS REAGENT	MIXTURE
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
ETHYL ALCOHOL, DENATURED	MIXTURE
ETHYL ALCOHOL, DENATURED	MIXTURE
ETHANOL	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
TRIZOL REAGENT	MIXTURE
PHENOL:CHLOROFORM:ISOAMYL ALCOHOL 25:24:1 SATURATED WITH 10 MM TRIS, PH 8.0, 1 MM EDTA	MIXTURE
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
PHENOL:CHLOROFORM:ISOAMYL ALCOHOL 25:24:1 SATURATED WITH 10 MM TRIS, PH 8.0, 1 MM EDTA	MIXTURE
TETRACYCLINE	SINGLE CHEMICAL
ETHANOL 95%	MIXTURE
ETHANOL 95%	MIXTURE
ISOFLURANE	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL

ISOPROPANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
SODIUM DEOXYCHOLATE	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
HYDROCHLORIC ACID	SINGLE CHEMICAL
DENATURED ETHANOL	MIXTURE
INSULIN, HUMAN RECOMBINANT	MIXTURE
ISOPENTANE	SINGLE CHEMICAL
TRIZOL REAGENT	MIXTURE
ISOPROPANOL	SINGLE CHEMICAL
CHLOROFORM	SINGLE CHEMICAL
PHOSSTOP	MIXTURE
PHOSPHATASE INHIBITOR COCKTAIL TABLETS	MIXTURE
ALCOHOL, ANHYDROUS, REAGENT	MIXTURE
WESTERNBRIGHT ECL SPRAY-HRP SUBSTRATE FOR XRAY FILM 500ML KIT	MIXTURE
ETHANOL	SINGLE CHEMICAL
HALT PROTEASE INHIBITOR COCKTAIL, EDTAFREE (100X)	MIXTURE
HALT PROTEASE INHIBITOR COCKTAIL, EDTAFREE (100X)	MIXTURE
CHLORZOXAZONE	SINGLE CHEMICAL
BUPROPION HYDROCHLORIDE	SINGLE CHEMICAL
LEVOFLOXACIN	SINGLE CHEMICAL
PIOGLITAZONE HYDROCHLORIDE	SINGLE CHEMICAL

ANNEX D

LOMEFLOXACIN HYDROCHLORIDE	SINGLE CHEMICAL
AMIODARONE HYDROCHLORIDE	SINGLE CHEMICAL
OMEPRAZOLE	SINGLE CHEMICAL
NIFEDIPINE	SINGLE CHEMICAL
NIFEDIPINE	SINGLE CHEMICAL
OMEPRAZOLE	SINGLE CHEMICAL
KETOCONAZOLE	SINGLE CHEMICAL
KETOCONAZOLE	SINGLE CHEMICAL
KETOCONAZOLE	SINGLE CHEMICAL
RIFAMPICIN	SINGLE CHEMICAL
CARBAMAZEPINE	SINGLE CHEMICAL
ROSIGLITAZONE	SINGLE CHEMICAL
CYCLOSPORIN	SINGLE CHEMICAL
CYCLOSPORIN	SINGLE CHEMICAL
TETRACYCLINE HYDROCHLORIDE	SINGLE CHEMICAL
PERHEXILINE MALEATE	SINGLE CHEMICAL
VINORELBINE TARTRATE	SINGLE CHEMICAL
TOLCAPONE	SINGLE CHEMICAL
GATIFLOXACIN SESQUIHYDRATE	SINGLE CHEMICAL
ACTINOMYCIN D	MIXTURE
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL

1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
1,1,1,2-TETRAFLUOROETHANE	SINGLE CHEMICAL
CARBENICILLIN SODIUM	SINGLE CHEMICAL
PENICILLIN STREPTOMYCIN	MIXTURE
PENICILLIN STREPTOMYCIN	MIXTURE
PENICILLIN STREPTOMYCIN	MIXTURE
SODIUM HYDROXIDE	SINGLE CHEMICAL
HOECHST 33342	MIXTURE
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL

ETHANOL	SINGLE CHEMICAL
PENICILLIN-STREPTOMYCIN SOLUTION 100X	MIXTURE
PENICILLIN-STREPTOMYCIN SOLUTION 100X	MIXTURE
PHOSSTOP	MIXTURE
ETOPOSIDE	SINGLE CHEMICAL
APROTININ	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ISOPROPANOL	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
1,2-DI-(DIMETHYLAMINO)ETHANE	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
4-HYDROXYTAMOXIFEN READY MADE SOLUTION	MIXTURE
BACITRACIN	SINGLE CHEMICAL
XYLENE	SINGLE CHEMICAL
XYLENE	SINGLE CHEMICAL
AMPHOTERICIN B SOLUTION	MIXTURE
DENATURED ETHANOL	MIXTURE
DENATURED ETHANOL	MIXTURE
DENATURED ETHANOL	MIXTURE

ANNEX D

KANAMYCIN SULPHATE	SINGLE CHEMICAL
ALCOHOL, ANHYDROUS, REAGENT	MIXTURE
ALCOHOL, ANHYDROUS, REAGENT	MIXTURE
PHOSPHATASE INHIBITOR COCKTAIL TABLETS	MIXTURE
SODIUM DEOXYCHOLATE	SINGLE CHEMICAL
ETHANOL	SINGLE CHEMICAL
TRIZOL REAGENT	MIXTURE
DENATURED ETHANOL	MIXTURE
DENATURED ETHANOL	MIXTURE
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
DIMETHYL SULFOXIDE	SINGLE CHEMICAL
SODIUM HYDROXIDE	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL
METHANOL	SINGLE CHEMICAL

List 2 – Material Under Biological Agent & Toxic Act (BATA)

Category	Biological Type	Name of Biological Material	Scientific Name
Nucleic Acid	Plasmid/Vectors/Clones	pMD2.G	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pRSV-Rev	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pMDLG-PRRE	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	lentiGuide-Puro	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Biological Agent	Virus/Bacteriophage		G9A SHRNA (H) LENTIVIRAL PARTICLES
Biological Agent	Virus/Bacteriophage		HISTONE H3.3A SHRNA (H) LENTIVIRAL PARTICLES
Biological Agent	Virus/Bacteriophage		CMV CONTROL LENTIVIRUS (RFP-BSD)
Biological Agent	Virus/Bacteriophage		TETR EXPRESSION LENTIVIRUS
Biological Agent	Virus/Bacteriophage		ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	PLKO LENTIVIRAL VECTOR	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pMDLg/pRRE	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pRSV-Rev	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pMD2.G	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLYS1-MICU1-Flag	ADVANCED GENERATION HIV LENTIVIRAL VECTOR

Nucleic Acid	Plasmid/Vectors/Clones	pLYS1-FLAG-MitoGFP-HA	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	MISSION shRNA Plasmid DNA	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	shRNA	MISSION shRNA Plasmid DNA	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	shRNA	MISSION shRNA Plasmid DNA	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1-MCU	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pRSV-REV (empty vector)	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 (empty vector)	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pMDLg/pRRE (empty vector)	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pMD2.G VSV-G	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pHAGE-EF1alpha-long-Gateway-IRES-GFP	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pMDLg/pRRE	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pRSV-Rev	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pMD2.G	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLenti-EF1a-hChR2(H134R)-EYFP-WPRE	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 C1ORF69 shRNA, 2B3C12 to 2B3D4	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 TMEM70 shRNA, 2B2A5 to 2B2A9	ADVANCED GENERATION HIV LENTIVIRAL VECTOR

Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 TMEM70 shRNA, 2B2A5 to 2B2A9	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 SPG7 shRNA, 2B1H12 to 2B2A4	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 SLC25A34 shRNA, 2B1H2 to 2B1H6	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 SFN shRNA, 2B1G9 to 2B1H1	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 TBR1 shRNA, 2B2A10 to 2B2B2	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 RPS6KB1 shRNA, 2B1G4 to 2B1G8	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 PSEN1 shRNA, 2B1F11 to 2B1G3	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 HRSP12 shRNA, 2B1F6 to 2B1F10	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 FAM82A2 shRNA, 2B1E8 to 2B1E12	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 FUNDC2 shRNA, 2B1F1 to 2B1F5	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 ECHDC1 shRNA, 2B1E3 to 2B1E7	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 DUSP26 shRNA, 2B1D10 to 2B1E2	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CYP46A1 shRNA, 2B1D5 to 2B1D9	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CKMT1A shRNA, 2B1C12 to 2B1D4	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CCDC28 A shRNA 2B1C7 to 2B1C11	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CASP7 shRNA 2B1C2 to 2B1C6	ADVANCED GENERATION HIV LENTIVIRAL VECTOR

Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CAPSL shRNA 2B1B9 to 2B1C1	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 C7orf44 shRNA, 2B1B4 to 2B1B8	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 ALDH4A1 shRNA 2B1A6 to 2B1A10	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 ANKRD37 shRNA, 2B1A11 to 2B1B3	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 AFG3L2 shRNA, 2B1A1 to 2B1A5	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 C21ORF58, 2B3D10 to 2B3E2	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 C21ORF2 shRNA, 2B3D5 to 2B3D9	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 BEX2 shRNA 2B3C7 to 2B3C11	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 BCL2L2 shRNA, 2B3C2 to 2B3C6	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 ARMC10 shRNA 2B3B9 to 2B3C1	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 SFXN5 shRNA 2B3B4 to 2B3B8	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 SFXN4 shRNA 2B3A11 to 2B3B3	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 SFXN3 shRNA 2B3A6 to 2B3A10	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 SFXN2 shRNA, 2B3A1 to 2B3A5	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	GIPZ Non-silencing Lentiviral shRNA Control, 25uL viral particles	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CACNA1 shRNA, glycerol set, 101 to 105	ADVANCED GENERATION HIV LENTIVIRAL VECTOR

Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CCDC90B shRNA, glycerol set, 43 to 47	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 MCUR1 shRNA, glycerol set, 38 to 42	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CCDC90b shRNA, glycerol stock, 34 to 37	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 EMRE/Smdt1 shRNA, glycerol stock, 29 to 33	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Micu2 shRNA, glycerol stock, 24 to 28	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Micu1 shRNA, glycerol stock, 19 to 23	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Pycard shRNA, glycerol stock 14 to 18	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Aim2 ShRNA, glycerol Stock, 10 to 13	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Nlrc4 shRNA, glycerol stock, 6 to 9	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Nlrp3 shRNA, glycerol stock, 1 to 5	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	GIPZ Lentiviral Empty Vector shRNA Control, Glycerol Stock	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Smad4 shRNA, glycerol set, 96 to 99	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Robo2 shRNA, glycerol set, 91 to 95	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.Camk2a shRNA, glycerol set, 86 to 90	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Sumo1 shRNA, glycerol set, 81 to 85	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 SIRT2 shRNA, glycerol set, 75 to 80	ADVANCED GENERATION HIV LENTIVIRAL VECTOR

Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Sirt2 shRNA, glycerol set, 72 to 74	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 Casp1 shRNA, glycerol set, 67 to 71	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 CASP1 shRNA, glycerol set, 63 to 66	ADVANCED GENERATION HIV LENTIVIRAL VECTOR
Nucleic Acid	Plasmid/Vectors/Clones	pLKO.1 MICU3 shRNA, glycerol set 49 to 53	ADVANCED GENERATION HIV LENTIVIRAL VECTOR

ARSON PREVENTION PLAN

CES will conduct daily patrols in buildings to do fire watch using Campus Patrol Team cars and ERT motorcycles.

Building Name	MD9
Effective Date	06/07/2026
Review Date	06/07/2027
Reviewed By	Fire Safety Manager: Muhammad Syafiq Bin Ismail Campus Emergency and Security University Campus Infrastructure
Stamp of CES	On behalf of CES UCI